

Indiana Department of Transportation

County Perry Route SR 62 Des. No. 1601034

**FHWA-Indiana Environmental Document
CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM
GENERAL PROJECT INFORMATION**

Road No./County:	SR 62, Perry County
Designation Number:	1601034
Project Description/Termini:	This project is a slide correction on SR 62, approximately 0.88 mile east of SR 37.

After completing this form, I conclude that this project qualifies for the following type of Categorical Exclusion (FHWA must review/approve if Level 4 CE):

X	Categorical Exclusion, Level 2 – The proposed action meets the criteria for Categorical Exclusion Manual Level 2 - table 1, CE Level Thresholds. Required Signatories: ESM (Environmental Scoping Manager)
	Categorical Exclusion, Level 3 – The proposed action meets the criteria for Categorical Exclusion Manual Level 3 - table 1, CE Level Thresholds. Required Signatories: ESM, ES (Environmental Services Division)
	Categorical Exclusion, Level 4 – The proposed action meets the criteria for Categorical Exclusion Manual Level 4 - table 1, CE Level Thresholds. Required Signatories: ESM, ES, FHWA
	Environmental Assessment (EA) – EAs require a separate FONSI. Additional research and documentation is necessary to determine the effects on the environment. Required Signatories: ES, FHWA

Note: For documents prepared by or for Environmental Services Division, it is not necessary for the ESM of the district in which the project is located to release for public involvement or sign for approval.

Approval

_____	_____	_____	_____
ESM Signature	Date	ES Signature	Date
_____		_____	
FHWA Signature		Date	

Release for Public Involvement

_____	<u>7/21/2020</u>	_____	_____
ESM Initials	Date	ES Initials	Date

Certification of Public Involvement

_____	_____
Office of Public Involvement	Date

Note: Do not approve until after Section 106 public involvement and all other environmental requirements have been satisfied.

INDOT ES/District Env.
Reviewer Signature: _____ Date: _____

Name and Organization of CE/EA Preparer: Sean Langley – Lochmueller Group, Inc.

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Part I - PUBLIC INVOLVEMENT

Every Federal action requires some level of public involvement, providing for early and continuous opportunities throughout the project development process. The level of public involvement should be commensurate with the proposed action.

Does the project have a historic bridge processed under the Historic Bridges PA*? Yes No
If No, then: Opportunity for a Public Hearing Required? X

*A public hearing is required for all historic bridges processed under the Historic Bridges Programmatic Agreement between INDOT, FHWA, SHPO, and the ACHP.

Discuss what public involvement activities (legal notices, letters to affected property owners and residents (i.e. notice of entry), meetings, special purpose meetings, newspaper articles, etc.) have occurred for this project.

Remarks: Notice of Entry letters were mailed to potentially affected property owners near the project area on December 13, 2017... This project will meet the minimum requirements described in the current Indiana Department of Transportation (INDOT) Public Involvement Manual...

Public Controversy on Environmental Grounds Will the project involve substantial controversy concerning community and/or natural resource impacts? Yes No X

Remarks: At this time, there is no substantial public controversy concerning impacts to the community or to natural resources.

Part II - General Project Identification, Description, and Design Information

Sponsor of the Project: Indiana Department of Transportation (INDOT) INDOT District: Vincennes
Local Name of the Facility: SR 62

Funding Source (mark all that apply): Federal X State X Local Other*

*If other is selected, please identify the funding source:

PURPOSE AND NEED:

Describe the transportation problem that the project will address. The solution to the traffic problem should NOT be discussed in this section. (Refer to the CE Manual, Section IV.B.2. Purpose and Need)

The need for this project is due to the landslide occurring along the westbound lane of SR 62, causing the pavement and roadside embankment to deteriorate and fail. The pavement condition was fair with pavement distress in the eastbound and westbound lanes. Pavement distress was notably greater in the westbound lane near the existing cross culvert. The probable mechanism for the slide is attributed to the steep sideslopes on the embankment fill, which was placed as part of the original roadway construction. Des No. 1601034 is located on SR 62 in Perry County, Indiana, approximately 0.88 mile east of SR 37.

The purpose of the project is to restore this section of SR 62 which was damaged by the landslide activity, and reinforce the failed slope.

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which will reduce the potential for future slide activity, resulting in improved traffic mobility and safety for the traveling public.

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):

County: Perry Municipality: Oil Township

Limits of Proposed Work: SR 62, 0.88 mile east of SR 37

Total Work Length: 0.09 Mile(s) Total Work Area: 1.54 Acre(s)

Is an Interchange Modification Study / Interchange Justification Study (IMS/IJS) required? Yes¹ No
 If yes, when did the FHWA grant a conditional approval for this project? Date:

¹If an IMS or IJS is required; a copy of the approved CE/EA document must be submitted to the FHWA with a request for final approval of the IMS/IJS.

In the remarks box below, describe existing conditions, provide in detail the scope of work for the project, including the preferred alternative. Include a discussion of logical termini. Discuss any major issues for the project and how the project will improve safety or roadway deficiencies if these are issues.

The Federal Highway Administration (FHWA) and INDOT Vincennes District propose to proceed with a slide correction on SR 62; this project is a part of a bundled group of slide repair projects under contract R-39919, lead Des No. 1601032.

Des No. 1601034 is located on SR 62 in Perry County, Indiana, approximately 0.88 miles east of SR 37. Specifically, the project is located in Section 25, Township 3 South, and Range 2 West in Oil Township as depicted on the Branchville U.S. Geological Survey 1:24,000 scale quadrangle (Appendix B, page 2).

Within the project area, SR 62 is functionally classified as a rural major collector. No driveways or approaches are present within the project limits. The typical cross section consists of one ten-foot travel lane in each direction. Two-foot paved shoulders are present on both sides of the roadway. The existing pavement is composed of 12 to 13-inch asphaltic pavement. The roadside within the slide area generally consists of riprap covered 1.5:1 sideslopes. Adjacent land use is generally forested with scattered rural residences.

The preferred alternative will correct the slide by constructing a 400-foot-long soil buttress fill with 3:1 sideslopes. The buttress fill will reinforce the landslide area of the slope and the pavement will be repaired with asphalt to restore SR 62 to acceptable INDOT standards. An additional 25 feet of incidental construction is anticipated to be required at the beginning and end of the slide correction limits for grading and tie-in work. Other work outside the slide correction length will include roadside ditch grading, shoulder widening (four feet), and mill and Hot Mix Asphalt (HMA) overlay construction. The roadway embankment will be constructed by benching into the existing sideslope. As the embankment is benched and graded, the bare soil will be covered with a manufactured surface protection product and seeded where slopes are 3:1 or steeper. Filter socks are anticipated to be proposed at the bottom of the fill slope to help prevent runoff. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) with a corrugated metal pipe extension is located within the project limits, and it is anticipated that the corrugated metal pipe will be removed and lengthening of the box will be required as part of the project to accommodate the widened typical section. Please refer to Appendix B for maps depicting the project area (pages 1-5), photographs of the project area (pages 6-10), and the Preliminary Design Plans (pages 11-20).

Every effort to avoid, minimize, and/or mitigate project impacts will be made.

The proposed maintenance of traffic (MOT) plan includes road closure with a detour. The detour will utilize SR 37, I-64, and SR 237. Please refer to the Maintenance of Traffic section of this document for full details. The MOT will be implemented per the *Indiana Design Manual* guidelines.

The project will meet the objectives of the purpose and need by reinforcing the failed slope and restoring the section of SR 62 that was damaged by the landslide activity, thereby improving safety and mobility along SR 62.

The project is not dependent upon the completion of any other project to meet the objectives of its purpose and need; therefore, the

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project exhibits independent utility. The project termini are logical because they only encompass the section of SR 62 affected by the landslide damage and resulting pavement failure.

OTHER ALTERNATIVES CONSIDERED:

Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not selected.

No Build:

This alternative would not repair the slide. While this alternative eliminates costs and any environmental impacts, it would not have met the objectives of the purpose and need of the project. Therefore, this alternative was discarded from further consideration.

Riprap Buttress with Bench:

This alternative would have involved construction of a riprap embankment. An eight-foot horizontal bench would have been constructed and riprap would have continued downward beyond the bench until it intercepted with existing ground surface. Additionally, ditches would have needed to be reconstructed to maintain drainage and the existing box culvert would have required extension, thus stream impacts would not be avoided. An additional 25 feet of incidental construction would have been required at the beginning and end of the slide correction limits for grading and tie-in work. A mill and overlay of the existing 24-foot wide roadway was proposed along with widening of the shoulder with aggregate. The shoulder would have been widened four feet to the Obstruction Free Zone. Although this alternative would have met the purpose and need of the project it would have resulted in higher cost than the preferred alternative; therefore, it was discarded from further consideration.

Soil Nailed Wall:

This alternative would have involved construction of a soil nailed wall with a minimum height of 22 feet. An additional 50 feet of incidental construction would have been required at the beginning and end of the slide correction limits for grading and tie-in work This alternative would not have required the reconstruction of ditches or extension of the existing box culvert to accommodate a flatter side slope. However, due to the poor condition of the 48-inch CMP extension it would have been proposed to replace the CMP extension with a box culvert extension, thus stream impacts would not have been avoided with this alternative. Although this alternative would have met the purpose and need of the project, it would have resulted in the need for additional investigation and would have resulted in considerably higher costs than the preferred alternative; therefore, it was discarded from further consideration.

The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply):

- It would not correct existing capacity deficiencies;
- It would not correct existing safety hazards;
- It would not correct the existing roadway geometric deficiencies;
- It would not correct existing deteriorated conditions and maintenance problems; or
- It would result in serious impacts to the motoring public and general welfare of the economy.
- Other (Describe)

X

ROADWAY CHARACTER:

Functional Classification:	<u> Rural Major Collector </u>		
Current ADT:	<u> 195 </u>	VPD (2021)	Design Year ADT: <u> 195 </u>
Design Hour Volume (DHV):	<u> 26 </u>	Truck Percentage (%)	<u> 6.15% </u>
Designed Speed (mph):	<u> 45 </u>	Legal Speed (mph):	<u> 45 </u>

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Existing **Proposed**

Number of Lanes:	2		2	
Type of Lanes:	Asphalt		Asphalt	
Pavement Width:	10	ft.	10	ft.
Shoulder Width:	2	ft.	2	ft.
Median Width:	N/A	ft.	N/A	ft.
Sidewalk Width:	N/A	ft.	N/A	ft.

Setting: Urban Suburban Rural
 Topography: Level Rolling Hilly

If the proposed action has multiple roadways, this section should be filled out for each roadway.

DESIGN CRITERIA FOR BRIDGES:

Structure/NBI Number(s): CV 062-062-92.36 Sufficiency Rating: _____
 (Rating, Source of Information)

Existing **Proposed**

Bridge Type:				
Number of Spans:				
Weight Restrictions:		ton		ton
Height Restrictions:		ft.		ft.
Curb to Curb Width:		ft.		ft.
Outside to Outside Width:		ft.		ft.
Shoulder Width:		ft.		ft.
Length of Channel Work:				ft.

Describe bridges and structures; provide specific location information for small structures.

Remarks: An 88-foot long, 4-foot by 4-foot reinforced concrete box culvert (CV 062-062-92.36) with a corrugated metal pipe (CMP) extension on the upstream end is present within the project area, approximately 0.85 mile east of SR 37 (Appendix B, page 3). The culvert conveys an unnamed tributary (UNT) to Tige Creek from south to north under SR 62. The culvert will be lengthened approximately 45 feet downstream and 30 feet upstream as a part of the project. Approximately 250 feet of impacts to the UNT to Tige Creek are anticipated as part of this project.

Will the structure be rehabilitated or replaced as part of the project? **Yes** **No** **N/A**
If the proposed action has multiple bridges or small structures, this section should be filled out for each structure.

MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

	Yes	No
Is a temporary bridge proposed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is a temporary roadway proposed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will the project involve the use of a detour or require a ramp closure? (describe in remarks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Provisions will be made for access by local traffic and so posted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Provisions will be made for through-traffic dependent businesses.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Provisions will be made to accommodate any local special events or festivals.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the proposed MOT substantially change the environmental consequences of the action?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there substantial controversy associated with the proposed method for MOT?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Remarks: The MOT will require a road closure with a detour with an official INDOT detour. The detour will utilize SR 37, I-64, and SR 237 for a total length of 8.56 miles (Appendix B, page 16). With a portion of the detour utilizing I-64, added travel time resulting from the detour will be negligible (approximately 1 minute).

The closures will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated and all inconveniences will cease upon project completion. Delays may occur during construction but will cease with project completion.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: \$ N/A Right-of-Way: \$ 360,000.00 (2020) Construction: \$ 6,630,006.00 (2021)

*This is the bundled cost for 12 projects, lead Des No. 1601032.

Anticipated Start Date of Construction: Spring 2021

Date project incorporated into STIP July 2, 2019; amended August 30, 2019

Is the project in an MPO Area? Yes No

If yes,

Name of MPO _____

Location of Project in TIP _____

Date of incorporation by reference into the STIP _____

RIGHT OF WAY:

Land Use Impacts	Amount (acres)	
	Permanent	Temporary
Residential	0.00	0.00
Commercial	0.00	0.00
Agricultural	0.00	0.00
Forest	0.78	0.00
Wetlands	0.05	0.00
Other:	0.00	0.00
Other:	0.00	0.00
TOTAL	0.83	0.00

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks: The existing right-of-way (ROW) extends approximately 25-40 feet north and south from the SR 62 centerline and consists of existing pavement, forest, wetlands, and roadside and forest clearing. Areas outside of the existing ROW will require reacquisition. Additional areas outside of the existing ROW from Project 42 Section C Plans will be required both along both the eastbound and westbound lanes.

Following acquisition and reacquisition, ROW will reach a maximum of 110 feet north of the centerline and 85 feet south

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of the centerline.

The project requires approximately 0.83 acre of permanent ROW, forest, wetlands, and roadside and forest clearing which will be acquired from both the north and south sides of SR 62. No temporary ROW will be required.

Approximately 0.46 acre of ROW is anticipated to be reacquired. All of the ROW to be reacquired will be from private owners.

If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and INDOT District Environmental Section will be contacted immediately.

Part III – Identification and Evaluation of Impacts of the Proposed Action

SECTION A – ECOLOGICAL RESOURCES

	<u>Presence</u>	<u>Impacts</u>	
		<u>Yes</u>	<u>No</u>
Streams, Rivers, Watercourses & Jurisdictional Ditches	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Federal Wild and Scenic Rivers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Natural, Scenic or Recreational Rivers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nationwide Rivers Inventory (NRI) listed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outstanding Rivers List for Indiana	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Navigable Waterways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Based on a desktop review, a site visit on October 7, 2019 by Lochmueller Group Inc., the aerial map of the project area (Appendix B, page 3), and the water resources map in the RFI report (Appendix E, page 9), there are thirteen streams, rivers, watercourses, or jurisdictional ditches located within the combined 0.5 mile search radius. There is one stream, river, watercourse, or jurisdictional ditch located within or adjacent to the project area.

A *Waters of the U.S. Determination / Wetland Delineation Report* was completed for the project and approved by INDOT Ecology and Waterway Permitting Office (EWPO) on March 20, 2020. Please refer to Appendix F, pages 1-14 for the *Waters of the U.S. Determination / Wetland Delineation Report*. It was determined that one jurisdictional stream, UNT to Tige Creek, was located within the project area. One wetland is also present within the survey area. The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.

UNT to Tige Creek is an ephemeral stream that flows from southeast to northwest across the survey area and is conveyed under SR 62 via CV 062-062-92.36. Approximately 250 feet of the stream is within the project area. This reach of the stream is considered to exhibit average quality based on the lack of stream flow, riffle/run/pool structure, and wide riparian buffer. The OHWM of the UNT to Tige Creek is 4 feet wide and 0.6 feet deep. The project is anticipated to permanently impact approximately 250 feet of this stream. Mitigation for this project is not anticipated.

No Federal, Wild, and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable waterways; or National Rivers Inventory Waterways are present in the project area.

Early coordination letters were sent on February 20, 2020. The USACE did not respond to the early coordination letter. An automated Proposed Roadway Letter was generated from the Indiana Department of Environmental Management (IDEM) website on February 20, 2020 (Appendix C, pages 5-12). Applicable recommendations from the Proposed Roadway Letter include coordinating with the appropriate agencies with regards to stream and wetland impacts and limiting stream and riparian disturbance. All applicable IDEM recommendations are included in the Environmental Commitments section of this CE document.

The Indiana Division of Natural Resources Division of Fish and Wildlife (IDNR DFW) responded on March 18, 2020 with recommendations to avoid or minimize impacts to fish, botanical, and wildlife resources (Appendix C, page 18). IDNR DFW recommendations included developing a mitigation plan for any unavoidable impacts to riparian habitat,

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minimizing and containing within the project limits in-channel disturbance, implementing appropriately designed measures for controlling erosion and sediment, and seeding and protecting all disturbed streambanks and slopes. All applicable IDNR DFW recommendations are included in the Environmental Commitments section of this CE document.

The U.S. Fish and Wildlife Service (USFWS) responded on June 11, 2020 with recommendations to avoid, minimize, or mitigate for impacts to fish and wildlife resources to the greatest extent possible (Appendix C, pages 19-20). These recommendations included restricting below low water work in streams, restricting channel work and vegetation clearing, minimizing the extent of hard armor for bank stabilization, avoiding work within the inundated part of the stream channel during fish spawning season, and evaluating wildlife crossings under bridge/culverts in appropriate situations. All applicable USFWS recommendations are included in the Environmental Commitments section of this CE document.

Other Surface Waters	<u>Presence</u>	<u>Impacts</u>	
		Yes	No
Reservoirs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farm Ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detention Basins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storm Water Management Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Based on a desktop review, a site visit on October 7, 2019, the aerial map of the project area (Appendix B, page 3), and the water resource map in the RFI report (Appendix E, pages 1-21) there are no other surface waters within the combined 0.5 mile search radius. No other surface waters are present within the project area; therefore, no impacts are expected.

A *Waters of the U.S. Determination / Wetland Delineation Report* was completed for the project and approved by INDOT EWPO on March 20, 2020. Please refer to Appendix F, pages 1-14 for the *Waters of the U.S. Determination / Wetland Delineation Report*. It was determined that one stream and one wetland are present within the project area. No other surface waters were identified. The U.S. USACE makes all final determinations regarding jurisdiction.

Early coordination letters were sent on February 20, 2020. The USACE did not respond to the early coordination letter. An automated letter was generated from the IDEM website on February 20, 2020 with recommendations to consider water, biotic, air, and land quality (Appendix C, pages 5-12). These recommendations included seeking proper permitting for impacting water resources when applicable. All applicable IDEM recommendations are included in the Environmental Commitments section of this CE document.

The IDNR DFW responded on March 18, 2020 with recommendations to avoid or minimize impacts to fish, botanical, and wildlife resources (Appendix C, page 18). None of these recommendations were applicable to other surface waters. All applicable IDNR DFW recommendations are included in the Environmental Commitments section of this CE document.

The USFWS responded on June 11, 2020 with recommendations to avoid, minimize, or mitigate for impacts to fish and wildlife resources to the greatest extent possible (Appendix C, pages 19-20). None of the recommendations were applicable to other surface waters. All applicable USFWS recommendations are included in the Environmental Commitments section of this CE document.

Wetlands	<u>Presence</u>	<u>Impacts</u>	
		Yes	No
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Total wetland area: 0.12 acre(s) Total wetland area impacted: 0.04 acre(s)

(If a determination has not been made for non-isolated/isolated wetlands, fill in the total wetland area impacted above.)

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Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comments
Wetland A	PEM1E	0.12	0.04	Wetland A is located along the roadside abutting and draining into UNT to Tige Creek (Appendix B, page 3).

Documentation

ES Approval Dates

Wetlands (Mark all that apply)

- Wetland Determination
- Wetland Delineation
- USACE Isolated Waters Determination
- Mitigation Plan

X
X

March 20, 2020
March 20, 2020

Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain):

- Substantial adverse impacts to adjacent homes, business or other improved properties;
- Substantially increased project costs;
- Unique engineering, traffic, maintenance, or safety problems;
- Substantial adverse social, economic, or environmental impacts, or
- The project not meeting the identified needs.

X

Measures to avoid, minimize, and mitigate wetland impacts need to be discussed in the remarks box.

Remarks: Based on a review of the National Wetlands Inventory (NWI) online mapper (<https://www.fws.gov/wetlands/daa/mapper.html>), a site visit on October 7, 2019 by Lochmueller Group, Inc., the USGS topographic map (Appendix B, page 2), and the RFI report (Appendix E, page 9), there are thirteen wetlands within the combined 0.5 mile search radius. There is one wetland present within or adjacent to the project area.

A *Waters of the U.S. Determination / Wetland Delineation Report* was completed for the project and approved by INDOT EWPO on March 20, 2020. Please refer to Appendix F, pages 1-14 for the *Waters of the U.S. Determination / Wetland Delineation Report*. It was determined that one 0.12-acre wetland, Wetland A, is present within the southeastern portion of the project area. Wetland A is classified as a palustrine emergent, persistent, seasonally flooded/saturated (PEM1E) and is considered to be of poor quality due to its size and function along the roadside. This wetland is subject to Clean Water Act jurisdiction due to a direct hydrologic connection with UNT to Tige Creek, a relatively permanent waterway (RPW). The USACE makes all final determinations regarding jurisdiction.

A total of approximately 0.04 acre of permanent impacts to the wetland are expected as a result of this project. Mitigation for this project is not anticipated. Avoidance alternatives are not practicable because they would not allow for access to the existing culvert or embankment.

The USACE did not respond to the early coordination letter. An automated letter was generated from the IDEM website on February 20, 2020 with recommendations to consider water, biotic, air, and land quality (Appendix C, pages 5-12). These recommendations included seeking proper permitting for impacting water resources when applicable. All applicable IDEM recommendations are included in the Environmental Commitments section of this CE document.

The IDNR DFW responded on March 18, 2020 with recommendations to avoid or minimize impacts to fish, botanical, and wildlife resources (Appendix C, page 18). IDNR DFW provided no recommendations specific to wetlands. All applicable IDNR DFW recommendations are included in the Environmental Commitments section of this CE document.

The USFWS responded on June 11, 2020 with recommendations to avoid, minimize, or mitigate for impacts to fish and wildlife resources to the greatest extent possible (Appendix C, pages 19-20). None of the recommendations were applicable to wetlands. All applicable USFWS recommendations are included in the Environmental Commitments section of this CE document.

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	<u>Presence</u>	<u>Impacts</u>	
		<u>Yes</u>	<u>No</u>
Terrestrial Habitat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Unique or High Quality Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Use the remarks

box to identify each type of habitat and the acres impacted (i.e. forested, grassland, farmland, lawn, etc).

Remarks: Based on a desktop review, a site visit on October 7, 2019 by Lochmueller Group, Inc. and the aerial map of the project area (Appendix B, page 3), there are maintained grass and forested habitat present. Dominant tree species within the forested habitat consist of pin oak (*Quercus palustris*), sugar maple (*Acer saccharum*), and black walnut (*Juglans nigra*). The dominant herbaceous species within the forested habitat was Christmas fern (*Polystichum aristichoides*). The dominant herbaceous species within the maintained grass habitat was tall fescue (*Schedonorus arundinaceus*). A total of 0.93 acre of terrestrial habitat disturbance will occur. A total of 0.93 acre of tree removal is anticipated for access to the site. Tree removal will occur between October 2021 and March 2022. Avoidance alternatives would not be practical because they would not allow the project to meet its purpose of correcting the slope failure.

The USACE did not respond to the early coordination letter. An automated letter was generated from the Indiana IDEM website on February 20, 2020 with recommendations to consider water, biotic, air, and land quality (Appendix C, pages 5-12). These recommendations included seeking proper permitting for impacting water resources when applicable. All applicable IDEM recommendations are included in the Environmental Commitments section of this CE document.

The Indiana Division of Natural Resources Division of Fish and Wildlife (IDNR DFW) responded on March 18, 2020 with recommendations to avoid or minimize impacts to fish, botanical, and wildlife resources (Appendix C, page 18). IDNR DFW recommendations included implementing appropriately designed measures for controlling erosion and sediment and seeding and protecting all disturbed streambanks and slopes. All applicable IDNR DFW recommendations are included in the Environmental Commitments section of this CE document.

The USFWS responded on June 11, 2020 with recommendations to avoid, minimize, or mitigate for impacts to fish and wildlife resources to the greatest extent possible (Appendix C, pages 19-20). Recommendations included restricting tree clearing and implementing temporary erosion and sediment control methods. All applicable USFWS recommendations are included in the Environmental Commitments section of this CE document.

If there are high incidences of animal movements observed in the project area, or if bridges and other areas appear to be the sole corridor for animal movement, consideration of utilizing wildlife crossings should be taken.

Karst	Yes	No
Is the proposed project located within or adjacent to the potential Karst Area of Indiana?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are karst features located within or adjacent to the footprint of the proposed project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, will the project impact any of these karst features?	<input type="checkbox"/>	<input type="checkbox"/>

Use the remarks box to identify any karst features within the project area. (Karst investigation must comply with the Karst MOU, dated October 13, 1993)

Remarks: Based on a desktop review, the project is located outside the designated karst region of Indiana as outlined in the October 13, 1993 Memorandum of Understanding (MOU). According to the topo map of the project area (Appendix B, page 2), and the RFI report (Appendix E, page 7), there are no karst features identified within or adjacent to the project area. In the early coordination response, the Indiana Geological Survey (IGS) did not indicate that karst features exist in the project area (Appendix C, pages 13-15). The response did indicate high potential for encountering bedrock resources and petroleum exploration wells in the vicinity. The response from IGS was communicated with the designer on April 13, 2020.

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	Presence	Impacts	
Threatened or Endangered Species		Yes	No
Within the known range of any federal species	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any critical habitat identified within project area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Federal species found in project area (based upon informal consultation)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State species found in project area (based upon consultation with IDNR)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is Section 7 formal consultation required for this action?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Remarks: Based on a desktop review and the RFI report (Appendix E, page 5), completed by Lochmueller Group, Inc. on August 15, 2018, the IDNR Crawford County Endangered, Threatened and Rare (ETR) Species List has been checked and is included in Appendix E, pages 12-21. The highlighted species on the list reflect the federal and state identified ETR species located within the county. According to the IDNR DFW early coordination response dated March 18, 2020 (Appendix C, page 18), the Natural Heritage Program’s Database has been checked and the state threatened French’s shootingstar (*Dodacatheon frenchii*) and the state watchlist Golden seal (*Hydrastis canadensis*) have been documented within 0.5 mile of the project. No impacts to these species are anticipated as a result of this project. The project is not located within any critical habitat.

Project information was submitted through the USFWS’s Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, pages 21-27). The project is within range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (NLEB) (*Myotis septentrionalis*). Other species were found to be present within or adjacent to the project along with the Indiana bat and NLEB.

The official species list generated from IPaC indicated one other species present within the project area, the federally endangered gray bat (*Myotis grisescens*). The project does not qualify for the USFWS Interim Policy. According to the USFWS response letter dated June 11, 2020 (Appendix C, pages 19-20), no impacts to the gray bat are anticipated as a result of this project.

The project qualifies for the *Range-wide Programmatic Informal Consultation for the Indiana bat and NLEB*, dated May 2016 (revised February 2018), between FHWA, Federal Railroad Administration (FRA), Federal Transit Administration (FTA), and USFWS. An effect determination key was completed on January 31, 2020, and based on the responses provided, the project was found to “May Affect - Not Likely to Adversely Affect” the Indiana bat and/or the NLEB (Appendix C, pages 28-41). INDOT reviewed and verified the effects finding on January 31, 2020 and requested USFWS’s review of the finding (Appendix C, page 43). No response was received from the USFWS within the 14-day review period; therefore, it was concluded they concur with the findings. Avoidance and Minimization Measures (AMMs) are included as firm commitments in the Environmental Commitments section of this document.

CV 062-062-92.36, located on SR 62 approximately 0.85 mile east of SR 37, has shown evidence of use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA) during the August 30, 2019 inspection. Avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 - April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 - September 7). Nest with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the “Potential Migratory Bird on Structure Unique Special Provision”. This firm commitment is included in the Environmental Commitments section of this document.

This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act, as amended. If new information on endangered species at the site becomes available, or if the project plans are changed, USFWS will be contacted for consultation.

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SECTION B – OTHER RESOURCES

Drinking Water Resources	Presence	Impacts	
		Yes	No
Wellhead Protection Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Water System(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Residential Well(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Source Water Protection Area(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sole Source Aquifer (SSA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If a SSA is present, answer the following:

	Yes	No
Is the Project in the St. Joseph Aquifer System?	<input type="checkbox"/>	<input type="checkbox"/>
Is the FHWA/EPA SSA MOU Applicable?	<input type="checkbox"/>	<input type="checkbox"/>
Initial Groundwater Assessment Required?	<input type="checkbox"/>	<input type="checkbox"/>
Detailed Groundwater Assessment Required?	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: The project is located in Perry County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/Environmental Protection Agency (EPA) Sole Source Aquifer MOU is not applicable to this project. Therefore, a detailed groundwater assessment is not needed and no impacts are expected.

The Indiana Department of Environmental Management’s Wellhead Proximity Determinator website (<http://www.in.gov/idem/cleanwater/pages/wellhead/>) was accessed on April 1, 2020 by Lochmueller Group, Inc. This project is not located within a Wellhead Protection Area or Source Water Area. No impacts are expected.

The Indiana Department of Natural Resources Water Well Record Database website (<https://www.in.gov/dnr/water/3595.htm>) was accessed on April 1, 2020 by Lochmueller Group, Inc. No wells are located near this project. Therefore, no impacts are expected.

Based on a desktop review of the INDOT MS4 website (<https://entapps.indot.in.gov/MS4/>) by Lochmueller Group, Inc. on April 1, 2020, and the RFI report; this project is not located in an Urban Area Boundary location. No impacts are expected.

Based on a desktop review, a site visit on October 7, 2019 by Lochmueller Group, Inc., and the aerial map of the project area (Appendix B, page 3), no public water systems were identified. Therefore, no impacts are expected.

Flood Plains	Presence	Impacts	
		Yes	No
Longitudinal Encroachment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transverse Encroachment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project located within a regulated floodplain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Homes located in floodplain within 1000’ up/downstream from project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Discuss impacts according to classification system described in the “Procedural Manual for Preparing Environmental Studies”.

Remarks: The Indiana Department of Natural Resources Indiana Floodway Information Portal website (<http://dnrm.dnr.in.gov/appsphp/fdms/>) was accessed on February 19, 2020 by Lochmueller Group, Inc. This project is not located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix F, page 16). Therefore, it does not fall within the guidelines for the implementation of 23 CFR 650, 23 CFR 771, and 44 CFR. No impacts are expected.

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Farmland	<u>Presence</u>	<u>Impacts</u>	
		Yes	No
Agricultural Lands	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prime Farmland (per NRCS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total Points (from Section VII of CPA-106/AD-1006* N/A
**If 160 or greater, see CE Manual for guidance.*

See CE Manual for guidance to determine which NRCS form is appropriate for your project.

Remarks: Based on a desktop review, a site visit on October 7, 2019 by Lochmueller Group, Inc., and the aerial map of the project area (Appendix B, page 3), there is no land that meets the definition of farmland under the Farmland Protection Policy Act (FPPA) within or adjacent to the project area. The requirements of the FPPA do not apply to this project; therefore, no impacts are expected. An early coordination letter was sent on February 20, 2020, to the Natural Resources Conservation Services (NRCS). The NRCS responded on February 21, 2020 stating that the project would not cause a conversion of prime farmland (Appendix C, page 16).

SECTION C – CULTURAL RESOURCES

	Category	Type	INDOT Approval Dates	N/A
Minor Projects PA Clearance	A	4	March 18, 2020	<input type="checkbox"/>
	B	4,9,10	March 18, 2020	<input type="checkbox"/>

Eligible and/or Listed
Resource Present

Results of Research

Archaeology	<input type="checkbox"/>
NRHP Buildings/Site(s)	<input type="checkbox"/>
NRHP District(s)	<input type="checkbox"/>
NRHP Bridge(s)	<input type="checkbox"/>

Project Effect

No Historic Properties Affected No Adverse Effect Adverse Effect

Documentation
Prepared

Documentation (mark all that apply)

		ES/FHWA Approval Date(s)	SHPO Approval Date(s)
Historic Properties Short Report	<input type="checkbox"/>		
Historic Property Report	<input type="checkbox"/>		
Archaeological Records Check/ Review	<input type="checkbox"/>		
Archaeological Phase Ia Survey Report	X	March 18, 2020	N/A
Archaeological Phase Ic Survey Report	<input type="checkbox"/>		
Archaeological Phase II Investigation Report	<input type="checkbox"/>		
Archaeological Phase III Data Recovery	<input type="checkbox"/>		
APE, Eligibility and Effect Determination	<input type="checkbox"/>		
800.11 Documentation	<input type="checkbox"/>		

Memorandum of Agreement (MOA)

MOA Signature Dates (List all signatories)

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Describe all efforts to document cultural resources, including a detailed summary of the Section 106 process, using the categories outlined in the remarks box. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of paper(s) and the comment period deadline. Likewise include any further Section 106 work which must be completed at a later date, such as mitigation or deep trenching.

Remarks: On March 18, 2020 INDOT Cultural Resources Office (CRO) determined that this project falls within the guidelines of Category A, Type 4 and Category B, Types 4, 9, and 10 (Appendix D, pages 1-5). Category A, Type 4 covers roadway work associated with surface replacement, reconstruction, rehabilitation, or resurfacing projects. Category B, Type 4 covers installation of new safety appurtenances, including but not limited to guardrails, barriers, glare screens, and crash attenuators. Category B, Type 9 covers installation, replacement, repair, lining, or extension of culverts and other drainage structures. Category B Type 10 covers slide corrections, slope repairs, and other erosion control measures.

An archaeological survey was required due to proposed work in undisturbed soil (Appendix D, pages 6-8). The Phase Ia report stated that 20 previously recorded archaeological sites are recorded within 1.0 mile of the site; however, none of the sites are located within or adjacent to the project area. The archeological investigation found no archaeological sites within the project area. No further investigation is required. This completes the Section 106 process and the responsibilities of the FHWA under Section 106 have been fulfilled.

SECTION D – SECTION 4(f) RESOURCES/ SECTION 6(f) RESOURCES

Section 4(f) Involvement (mark all that apply)

Parks & Other Recreational Land

- Publicly owned park
- Publicly owned recreation area
- Other (school, state/national forest, bikeway, etc.)

<u>Presence</u>	<u>Use</u>	
	Yes	No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluations Prepared

- Programmatic Section 4(f)*
- “De minimis” Impact*
- Individual Section 4(f)

<u>Presence</u>	<u>FHWA Approval date</u>
<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>

Wildlife & Waterfowl Refuges

- National Wildlife Refuge
- National Natural Landmark
- State Wildlife Area
- State Nature Preserve

<u>Presence</u>	<u>Use</u>	
	Yes	No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluations Prepared

- Programmatic Section 4(f)*
- “De minimis” Impact*
- Individual Section 4(f)

<u>Presence</u>	<u>FHWA Approval date</u>
<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>

Historic Properties

- Sites eligible and/or listed on the NRHP

<u>Presence</u>	<u>Use</u>	
	Yes	No
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**Evaluations
Prepared**

**FHWA
Approval date**

Programmatic Section 4(f)*
"De minimis" Impact*
Individual Section 4(f)

**FHWA approval of the environmental document also serves as approval of any Section 4f Programmatic and/or De minimis evaluation(s) discussed below.*

Discuss Programmatic Section 4(f) and "de minimis" Section 4(f) impacts in the remarks box below. Individual Section 4(f) documentation must be separate Draft and Final documents. For further discussions on Programmatic, "de minimis" and Individual Section 4(f) evaluations please refer to the "Procedural Manual for the Preparation of Environmental Studies". Discuss proposed alternatives that satisfy the requirements of Section 4(f).

Remarks: Section 4(f) of the U.S. Department of Transportation Act of 1966 prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is no feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife / waterfowl refuges, and NRHP eligible or listed historic properties regardless of ownership. Lands subject to this law are considered Section 4(f) resources.

Based on a desktop review, a site visit on October 7, 2019 by Lochmueller Group, Inc., the aerial map of the project area (Appendix B, page 3), there are no 4(f) resources located within the 0.5 mile search radius. There are no Section 4(f) resources within or adjacent to the project area. No impact is expected.

Section 6(f) Involvement

Presence

Use

Yes

No

Section 6(f) Property

Discuss proposed alternatives that satisfy the requirements of Section 6(f). Discuss any Section 6(f) involvement.

Remarks: The U.S. Land and Water Conservation Fund Act of 1965 established the Land and Water Conservation Fund (LWCF), which was created to preserve, develop, and assure accessibility to outdoor recreation resources. Section 6(f) of this Act prohibits conversion of lands purchased with LWCF monies to a non-recreation use.

A review of 6(f) properties on the LWCF Indiana County List 2-25-2020 on INDOT's Environmental Policy webpage (<https://www.in.gov/indot/2523.htm>) revealed a total of two properties in Perry County (Appendix I, page 1). Neither of these properties are located within or adjacent to the project area. Therefore, there will be no impacts to 6(f) resources as a result of this project.

SECTION E – Air Quality

Air Quality

Conformity Status of the Project

Is the project in an air quality non-attainment or maintenance area?

Yes

No

If YES, then:

Is the project in the most current MPO TIP?

Is the project exempt from conformity?

If the project is NOT exempt from conformity, then:

Is the project in the Transportation Plan (TP)?

Is a hot spot analysis required (CO/PM)?

Level of MSAT Analysis required?

Level 1a Level 1b Level 2 Level 3 Level 4 Level 5

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Remarks: The Fiscal Year (FY) 2020-2024 State Transportation Improvement Program (STIP) is listed based on the lead DES number in the contract. The lead DES number for this contract is 1601032. The FY 2020-2024 STIP includes DES number 1601034 by reference with the contract number R-39919.

This project is located in Perry County, which is currently in attainment for all criteria pollutants according to the Environmental Protection Agency's Green Book website (<https://www.epa.gov/green-book>). Therefore, the conformity procedures of 40 CFR Part 93 do not apply.

This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(c), or exempt under the Clean Air Act conformity rule under 40 CFR 93.126, and as such, a Mobile Source Air Toxics analysis is not required.

SECTION F - NOISE

Noise	Yes	No
Is a noise analysis required in accordance with FHWA regulations and INDOT's traffic noise policy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	No	Yes/ Date
ES Review of Noise Analysis		

Remarks: This project is a Type III project. In accordance with 23 CFR 772 and current *Indiana Department of Transportation Traffic Noise Analysis Procedure*, this action does not require a formal analysis.

SECTION G – COMMUNITY IMPACTS

	Yes	No
Regional, Community & Neighborhood Factors		
Will the proposed action comply with the local/regional development patterns for the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the proposed action result in substantial impacts to community cohesion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will the proposed action result in substantial impacts to local tax base or property values?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will construction activities impact community events (festivals, fairs, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the community have an approved transition plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If No, are steps being made to advance the community's transition plan?	<input type="checkbox"/>	<input type="checkbox"/>
Does the project comply with the transition plan? (explain in the remarks box)	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: The project will ultimately be beneficial to local businesses and properties due to improvements of deteriorating roadway conditions. Overall, the negative impacts to property owners and local businesses within the project area will be minimal and will consist primarily of short-term construction impacts due to the road closure and resulting detour. No relocations are expected. Property owners will be provided access throughout the duration of the project to reduce impacts as much as possible. The project is not anticipated to result in substantial impacts to community cohesion, because it will not change access to properties within the area. The proposed project is not expected to impact the surrounding community or cause economic impacts to the surrounding area. Therefore, this project will have minimal or no negative impacts to the community or local economy.

According to the Fairs and Festivals website (www.fairsandfestivals.net), accessed on April 13, 2020 by Lochmueller Group there are no fairs or festivals scheduled within 10 miles of the project.

The MOT may pose delays and temporary inconveniences to traveling motorists (including school buses and emergency services); however, all inconveniences will cease upon project completion. The MOT for the project is not anticipated to impact access to community events. The project sponsor will be responsible for contacting school districts and emergency services at least two weeks prior to any construction activities that would limit access, this is included as a commitment in the Environmental Commitments section of this CE document.

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Perry County has an approved ADA transition plan. The project will comply with the published ADA transition plan and will not create any additional barriers for access.

Indirect and Cumulative Impacts

Will the proposed action result in substantial indirect or cumulative impacts? Yes No

Remarks: Indirect impacts are effects which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect impacts affect the environment which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such actions.

This project will not add substantial capacity to the existing roadway network or provide additional access to any currently undeveloped area. Therefore, the project is not expected to increase development in the area or result in substantial indirect or cumulative impacts.

Public Facilities & Services

Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? *Discuss how the maintenance of traffic will affect public facilities and services.* Yes No

Remarks: Based on a desktop review, a site visit on October 7, 2019 by Lochmueller Group, Inc., the aerial map of the project area (Appendix B, page 3), and the RFI report (Appendix E, page 8), there is one religious facility located within the 0.5 mile search radius. There is one cemetery located within the 0.5 mile search radius. There is one recreational facility located within the 0.5 mile search radius. There are no public facilities within or adjacent to the project area. Therefore, there will be no direct or indirect impacts to public facilities. Access to all properties will be maintained during construction. Therefore, no impacts are expected.

Southern Indiana Power has overhead poles in the area. It is anticipated that they will need relocated. Relocation coordination was initiated on October 21, 2019. No other utilities are present within the project area.

It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access.

Environmental Justice (EJ) (Presidential EO 12898)

During the development of the project were EJ issues identified? Yes No

Does the project require an EJ analysis?

If YES, then:

Are any EJ populations located within the project area?

Will the project result in adversely high or disproportionate impacts to EJ populations?

Remarks: Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent right-of-way. The project will not require any relocations, but will require 0.83 acre of right-of-way. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exist and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city, or town and is called the community of comparison (COC). In this project, the COC is Perry County. The community that overlaps the project area is called the affected community (AC). In this project, the AC is Census Tract 9522. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the 2014-2018 American Community Survey 5 Year Estimates was obtained from the US Census Bureau Website

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<https://data.census.gov/cedsci/> on June 18, 2020 by Lochmueller Group, Inc. The data collected for minority and low-income populations within the AC are summarized in the below table.

Table: Minority and Low-Income Data (2014-2018 American Community Survey 5 Year Estimates)		
	COC – Perry County, Indiana	AC – Block Group 1, Census Tract 9522, Perry County, Indiana
Percent Minority	5.78%	0.00%
125% of COC	7.22%	AC<125%COC
EJ Population of Concern		No
Percent Low-Income	14.07%	12.38%
125% of COC	17.58%	AC<125%COC
EJ Population of Concern		No

The AC, Block Group 1, Census Tract 9522, has a percent minority of 0.00% which is below 50% and is below the 125% COC threshold. Therefore, the AC does not contain minority populations of EJ concern.

The AC, Block Group 1, Census Tract 9522, has a percent low-income of 12.38% which is below 50% and is below the 125% COC threshold. Therefore, the AC does not contain low-income populations of EJ concern.

The census data sheets, map, and calculations can be found in Appendix I, pages 2-5. No further environmental justice analysis is warranted.

Relocation of People, Businesses or Farms

Will the proposed action result in the relocation of people, businesses or farms?

Is a Business Information Survey (BIS) required?

Is a Conceptual Stage Relocation Study (CSRS) required?

Has utility relocation coordination been initiated for this project?

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Number of relocations: Residences: _____ Businesses: _____ Farms: _____ Other: _____

If a BIS or CSRS is required, discuss the results in the remarks box.

Remarks: No relocations of people, businesses, or farms will take place as a result of this project.

SECTION H – HAZARDOUS MATERIALS & REGULATED SUBSTANCES

Hazardous Materials & Regulated Substances (Mark all that apply)

Red Flag Investigation

Phase I Environmental Site Assessment (Phase I ESA)

Phase II Environmental Site Assessment (Phase II ESA)

Design/Specifications for Remediation required?

Documentation

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

No Yes/ Date

ES Review of Investigations	August 15, 2018
------------------------------------	-----------------

Include a summary of findings for each investigation.

This is page 18 of 21 Project name: SR 62 Slide Correction Date: July 17, 2020

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Remarks: Based on a review of GIS and available public records, an RFI was approved on August 15, 2018 by INDOT Site Assessment & Management (SAM) (Appendix E, page 4). No sites with hazardous materials (hazmat) concerns or sites involved with regulated substances were identified in or within 0.5 mile of the project area. The RFI report identifies two brownfields and one NPDES pipe location within 0.5 mile of the project area that are mapped incorrectly and are actually located outside the 0.5 mile search radius. Due to the amount of time that has passed since approval of the RFI, a desktop GIS review was completed on June 18, 2020 by Lochmueller Group, Inc. No new features were identified, and no hazmat sites are present within or adjacent to the project area. Further investigation for hazardous material concerns is not required at this time.

SECTION I – PERMITS CHECKLIST

Permits (mark all that apply) Likely Required

Army Corps of Engineers (404/Section10 Permit)	
Individual Permit (IP)	<input type="checkbox"/>
Nationwide Permit (NWP)	<input type="checkbox"/>
Regional General Permit (RGP)	<input checked="" type="checkbox"/>
Pre-Construction Notification (PCN)	<input type="checkbox"/>
Other	<input type="checkbox"/>
Wetland Mitigation required	<input type="checkbox"/>
Stream Mitigation required	<input type="checkbox"/>
IDEM	
Section 401 WQC	<input checked="" type="checkbox"/>
Isolated Wetlands determination	<input type="checkbox"/>
Rule 5	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>
Wetland Mitigation required	<input type="checkbox"/>
Stream Mitigation required	<input type="checkbox"/>
IDNR	
Construction in a Floodway	<input type="checkbox"/>
Navigable Waterway Permit	<input type="checkbox"/>
Lake Preservation Permit	<input type="checkbox"/>
Other	<input type="checkbox"/>
Mitigation Required	<input type="checkbox"/>
US Coast Guard Section 9 Bridge Permit	
Others (Please discuss in the remarks box below)	
	<input type="checkbox"/>

Remarks: A total of 250 feet of UNT to Tige Creek will be impacted by the project. Impacts will be limited to the portion of the stream within the construction limits of the project. A USACE Section 404 RGP and IDEM Section 401 Water Quality Certification will likely be required due to impacts to UNT to Tige Creek. A formal jurisdictional determination has not yet been made by the USACE, which will be required during the permitting phase.

The project may disturb more than one acre of land; therefore, an IDEM Rule 5 Notice of Intent may be necessary.

Applicable recommendations provided by USACE and IDEM are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.

It is the responsibility of the project sponsor to identify and obtain all required permits.

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SECTION J- ENVIRONMENTAL COMMITMENTS

The following information should be provided below: List all commitments, name of agency/organization requesting the commitment(s) and indicating which are firm and which are for further consideration. The commitments should be numbered.

Remarks:

Firm:

1. If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT District)
2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
3. CV 062-062-92.36 has shown evidence of use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA) during the August 30, 2019 inspection. Avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 - April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 - September 7). Nest with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure USP". (INDOT)
4. USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after October 7, 2021, an inspection of the structure by a qualified individual, must be performed. Inspection of the structure should check for presence of bats/bat indicators and/or presence of birds. If signs of bats or birds are documented during the inspection, the INDOT District Environmental Manager must be contacted immediately. (INDOT)
5. General AMM 1: Ensure all operators, employees, and contractors working in the areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
6. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g. temporary work areas, alignments) to avoid tree removal (USFWS)
7. Tree Removal AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present (November 15 through March 30 for projects within 10 miles of critical habitat or Priority 1 and 2 hibernacula), or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing rod/rail surface and **outside of documented** roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS)
8. Tree Removal AMM 3: Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g. install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
9. Tree Removal AMM4: Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 mile of roosts, or **documented** foraging habitat any time of year. (USFWS)

For Further Consideration:

1. Restrict below low-water work in streams to placement of culverts, piers, pilings and or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap. Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-bottom culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community. (USFWS)
2. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If riprap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat. (USFWS)
3. Avoid all work within the inundated part of the stream channel (in perennial and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams. (USFWS)
4. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing. (USFWS)

Indiana Department of Transportation

County Perry Route SR 62 Des. No. 1601034

SECTION K- EARLY COORDINATION

Please list the date coordination was sent and all agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks: Early coordination with the regulatory agencies was completed on February 20, 2020 (Appendix C, pages 1-4). If no response was received, it was assumed the agency did not feel the project will result in substantial impacts. The following agencies/individuals were contacted during the coordination phase.

Agency	Date of Response(s)
1. Indiana Geological Survey	February 20, 2020
2. IDNR, Division of Fish and Wildlife	March 18, 2020
3. IDEM	February 14, 2020
4. INDOT, Office of Public Involvement	No response received
5. U.S. Housing and Urban Development	No response received
6. National Park Service	No response received
7. INDOT, Vincennes District	February 27, 2020
8. National Resources Conservation Service, Indianapolis Office	February 24, 2020
9. U.S. Fish and Wildlife Service	June 11, 2020
10. U.S. Army Corps of Engineers	No response received
11. Perry County Highway Department	No response received
12. Perry County Board of Commissioners	No response received
13. Perry County Council	No response received
14. Perry County Community School Corporation	No response received
15. Perry County Emergency Management Agency	No response received
16. Perry County Surveyor	No response received
17. Perry County Sheriff's Department	No response received
18. Perry Central Fire Department	No response received
19. Perry County Soil & Water District	No response received

Appendix A: INDOT Supporting Documentation

CE Level Threshold Chart..... 1

Appendix B: Graphics

General Location Map..... 1
 USGS Topographic Map..... 2
 Project Map (2013 Aerial)..... 3
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 Indiana Geological Survey
 Electronic Response (February 20, 2020)..... 13-15
 Natural Resources Conservation Service
 Response Letter (February 21, 2020)..... 16
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Appendix G: Public Involvement

Sample Notice of Survey Letter 1

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Relevant page from the INDOT 2020-2024 STIP 1

Appendix I: Other Information

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 EJ Analysis..... 2-6

Categorical Exclusion

Appendix A

INDOT Supporting Documentation

Categorical Exclusion Level Thresholds

	PCE	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	“No Historic Properties Affected”	“No Adverse Effect”	-	“Adverse Effect” Or Historic Bridge involvement ²
Stream Impacts	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way³	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	“No Effect”, “Not likely to Adversely Affect” (Without AMMs ⁴ or with AMMs required for all projects ⁵)	“Not likely to Adversely Affect” (With any other AMMs)	-	“Likely to Adversely Affect”	Project does not fall under Species Specific Programmatic
Threatened/Endangered Species (Any other species)	Falls within guidelines of USFWS 2013 Interim Policy	“No Effect”, “Not likely to Adversely Affect”	-	-	“Likely to Adversely Affect”
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁶
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-	-	Not Consistent
National Wild and Scenic River	Not Present	-	-	-	Present
New Alignment	None	-	-	-	Any
Section 4(f) Impacts	None	-	-	-	Any
Section 6(f) Impacts	None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes ⁷
Approval Level	Concurrence by INDOT District Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes

¹Coordinate with INDOT Environmental Services. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

²Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

³Permanent and/or temporary right-of-way.

⁴AMMs = Avoidance and Mitigation Measures.

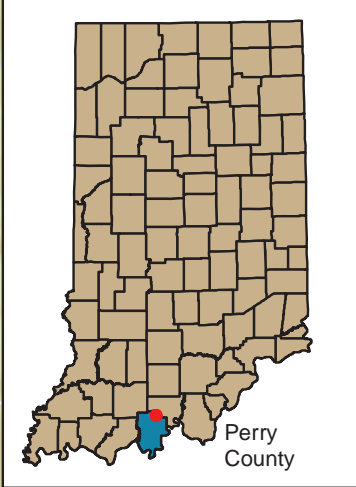
⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User’s Guide for the Range-wide Programmatic Consultation for Indiana bat and Northern long-eared bat* as “required for all projects”.

⁶Potential for causing a disproportionately high and adverse impact.

⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.


*Substantial public or agency controversy may require a higher-level NEPA document.

Categorical Exclusion
Appendix B
Graphics



Perry County

Legend

 Project Area


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



6200 Vogel Road
 Evansville, IN 47715
 Phone: (812) 479-6200
 Fax: (812) 479-6262

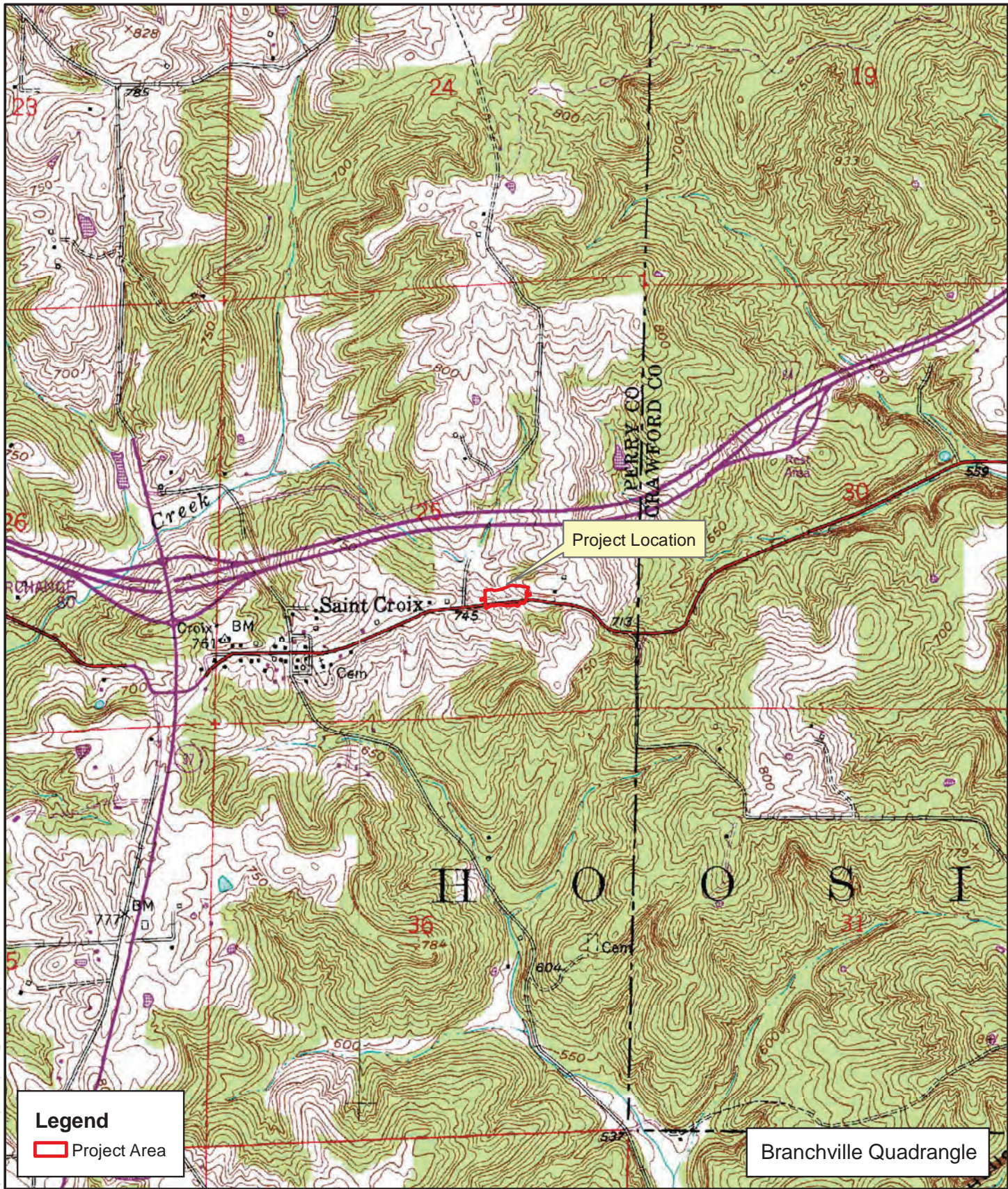
General Location Map
 Des. No. 1601034

0 0.25 0.5 Miles



County: Perry
 Township: Oil

SR 62, 0.88 mile E of SR 37
 Slide Correction
 Created: 2/18/2020, H.Hume



Legend

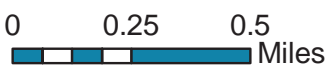
 Project Area

Branchville Quadrangle



6200 Vogel Road
 Evansville, IN 47715
 Phone: (812) 479-6200
 Fax: (812) 479-6262

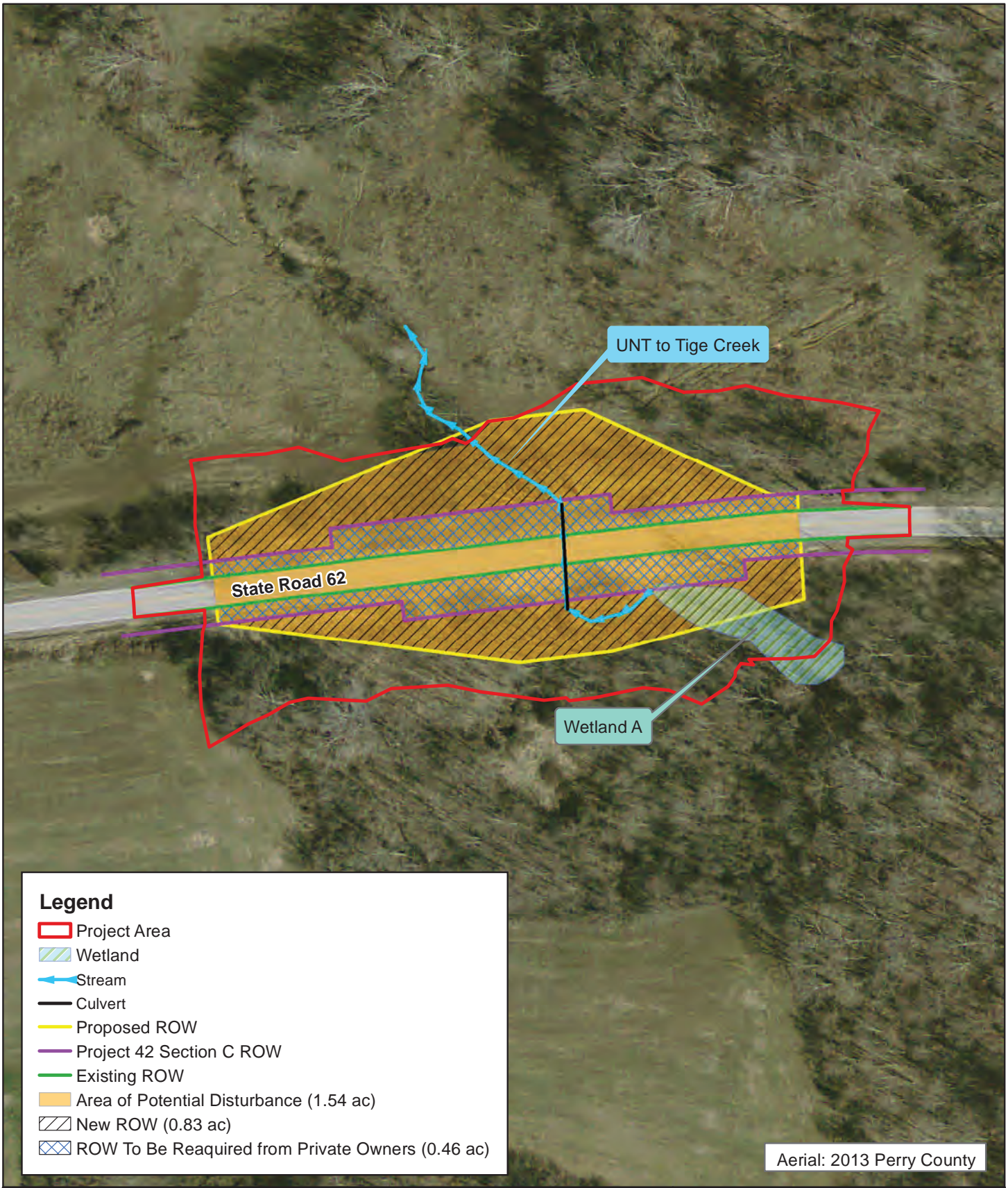
USGS Topographic Map
 Des. No. 1601034



County: Perry
 Township: Oil

SR 62, 0.88 mile east of SR 37
 Slide Correction
 Created: 2/18/2020, H.Hume



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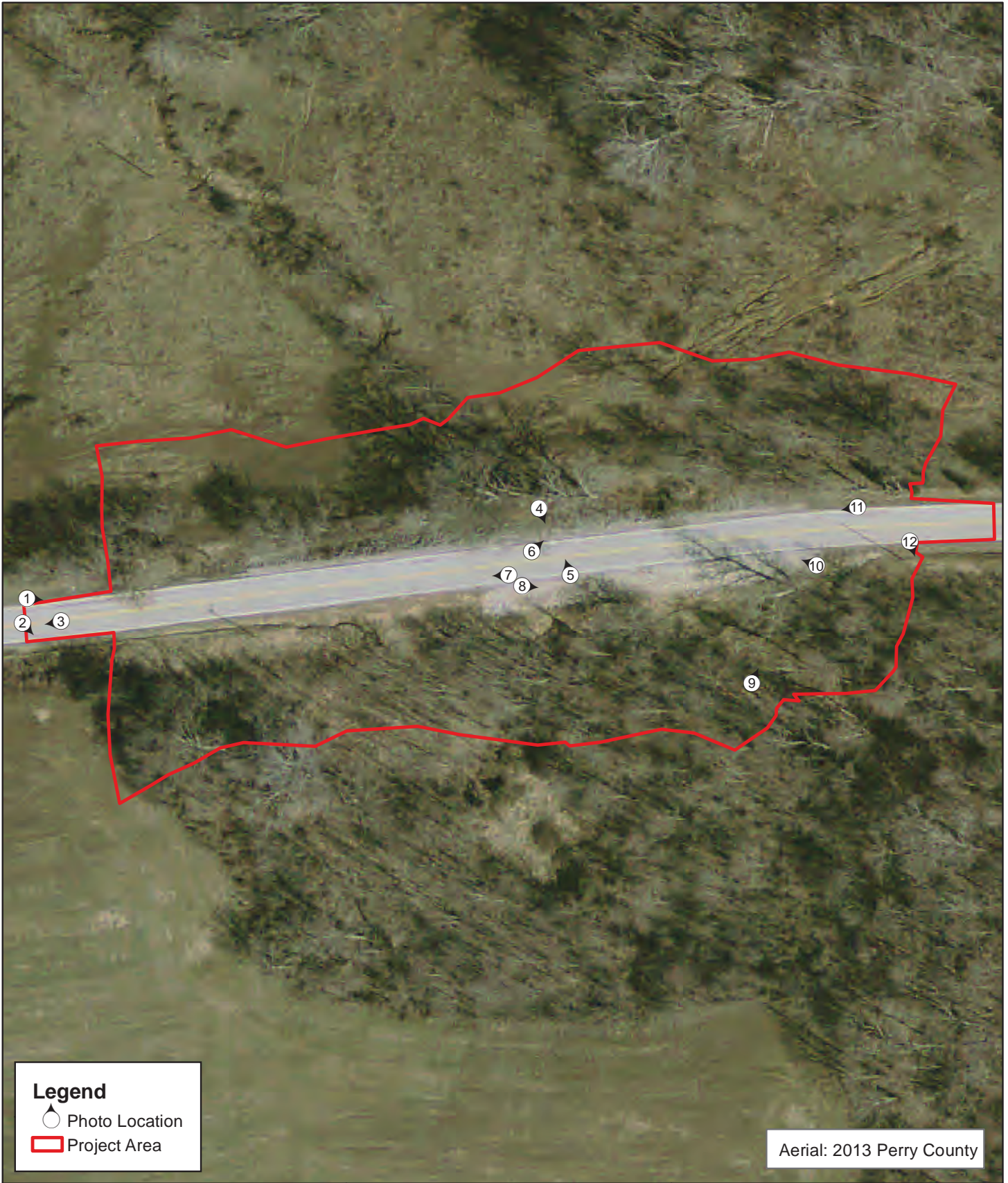


Aerial: 2013 Perry County



Legend




- Project Area
- Wetland
- ← Stream
- Culvert
- Proposed ROW
- Project 42 Section C ROW
- Existing ROW
- Area of Potential Disturbance (1.54 ac)
- New ROW (0.83 ac)
- ROW To Be Required from Private Owners (0.46 ac)

 6200 Vogel Road Evansville IN, 47715 Phone: (812) 479-6200 Toll Free: (800) 423-7411	<p>Project Map Des. No. 1601034</p>	County: Perry Township: Oil SR 62, 0.88 mile east of SR 37 Slide Correction Created: 6/18/2020, H.Hume
<p>0 50 100 Feet</p>		



Aerial: 2013 Perry County

Legend
 Photo Location
 Project Area

 6200 Vogel Road Evansville IN, 47715 Phone: (812) 479-6200 Toll Free: (800) 423-7411	<p>Photo Location Map Des. No. 1601034</p>	County: Perry Township: Oil
	<p>0 40 80  Feet</p> 	SR 62, 0.88 mile east of SR 37 Slide Correction Created: 6/18/2020, H.Hume



1. North side of SR 62 facing east from west survey boundary



2. North side of SR 62 facing southeast



3. SR 62 facing east from west survey boundary



4. Culvert outlet under SR 62 facing south



5. Culvert inlet under SR 62 facing north



6. North side of SR 62 embankment facing northeast



7. North side of SR 62 facing west



8. Slide correction area, north side of SR 62 facing east



9. Facing northeast toward SR 62



10. North side of SR 62 facing west



11. South side of SR 62 facing west



12. View of south side of SR 62 facing south



13. North side of SR 62 facing east

PROJECT	DESIGNATION
1601034	1601034
CONTRACT	BRIDGE FILE
R-39919

INDIANA DEPARTMENT OF TRANSPORTATION

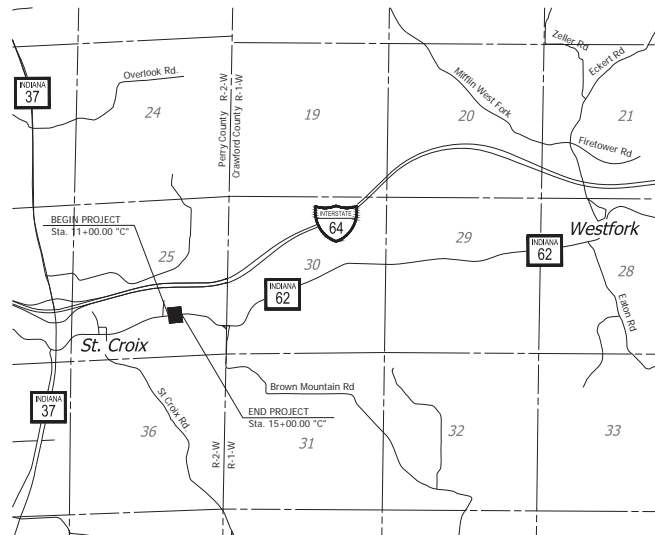


CULVERT ASSETS	
Culvert Asset ID	Work Type
CV 062-062-92.36	Replacement

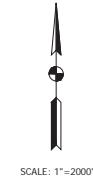
ROAD PLANS

PROJECT NO. 1601034 P.E.
 PROJECT NO. R/W
 PROJECT NO. CONST.
 ROUTE: S.R. 62 AT: RP 92+40

Slide Correction is Located Along S.R. 62. Approximately 0.88 Miles East of S.R. 37, in Section 25, T3S, R2W in Oil TWP, Perry County Indiana.

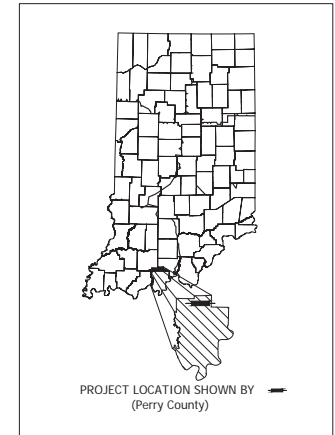


LOCATION MAP



SCALE: 1"=2000'

TRAFFIC DATA		
A.A.D.T. (2021)		195 V.P.D.
A.A.D.T. (2041)		195 V.P.D.
D.H.V. (2041)		26 V.P.H.
DIRECTIONAL DISTRIBUTION		51.28 %
TRUCKS		6.12% A.A.D.T.
		3.85% D.H.V.
DESIGN DATA		
DESIGN SPEED		45 M.P.H.
PROJECT DESIGN CRITERIA		3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		State Collector
RURAL/URBAN		Rural
TERRAIN		Rolling
ACCESS CONTROL		None



LATITUDE: 38°13'32" N LONGITUDE: 86°34'31" W

BRIDGE LENGTH:	MI.
ROADWAY LENGTH:	0.08	MI.
TOTAL LENGTH:	0.08	MI.
MAX. GRADE:	3.49	%
H.U.C. 14	05140201060020	

PRELIMINARY PLANS
05/05/20

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS

Plans Prepared By:
LOCHMUELLER GROUP
 6200 Vogel Road
 Evansville, Indiana 47715
 Phone: 812.479.6200
 Toll Free: 800.423.7411

SOIL CONSULTANTS
 EARTH EXPLORATION, INC
 7770 WEST NEW YORK STREET
 INDIANAPOLIS, INDIANA 46214

Preliminary

PLANS PREPARED BY: _____ (____) _____ PHONE NUMBER
 CERTIFIED BY: _____ DATE
 APPROVED FOR LETTING: _____ DATE
 INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
DESIGNATION	
1601034	
SURVEY BOOK	SHEETS
CONTRACT	1 of ...
R-39919	PROJECT
	1601034

UTILITIES

ELECTRIC
 Southern Indiana Power
 Dale Kaufman
 dkaufman@singer.com
 Office: 812-547-2316
 1776 10th Street
 Tell City, IN 47586



GENERAL NOTES

** REPRESENTS GENERAL NOTES REQUIRED

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3	TYPICAL CROSS SECTIONS
4	PLAT 1
5	GEOMETRIC TIE-UP
6	MAINTENANCE OF TRAFFIC
7	PLAN SHEET
8	PROFILE SHEET
9	SUPERELEVATION TRANSITION
10	APPROACH & STRUCTURE DATA TABLES
11-18	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

Preliminary

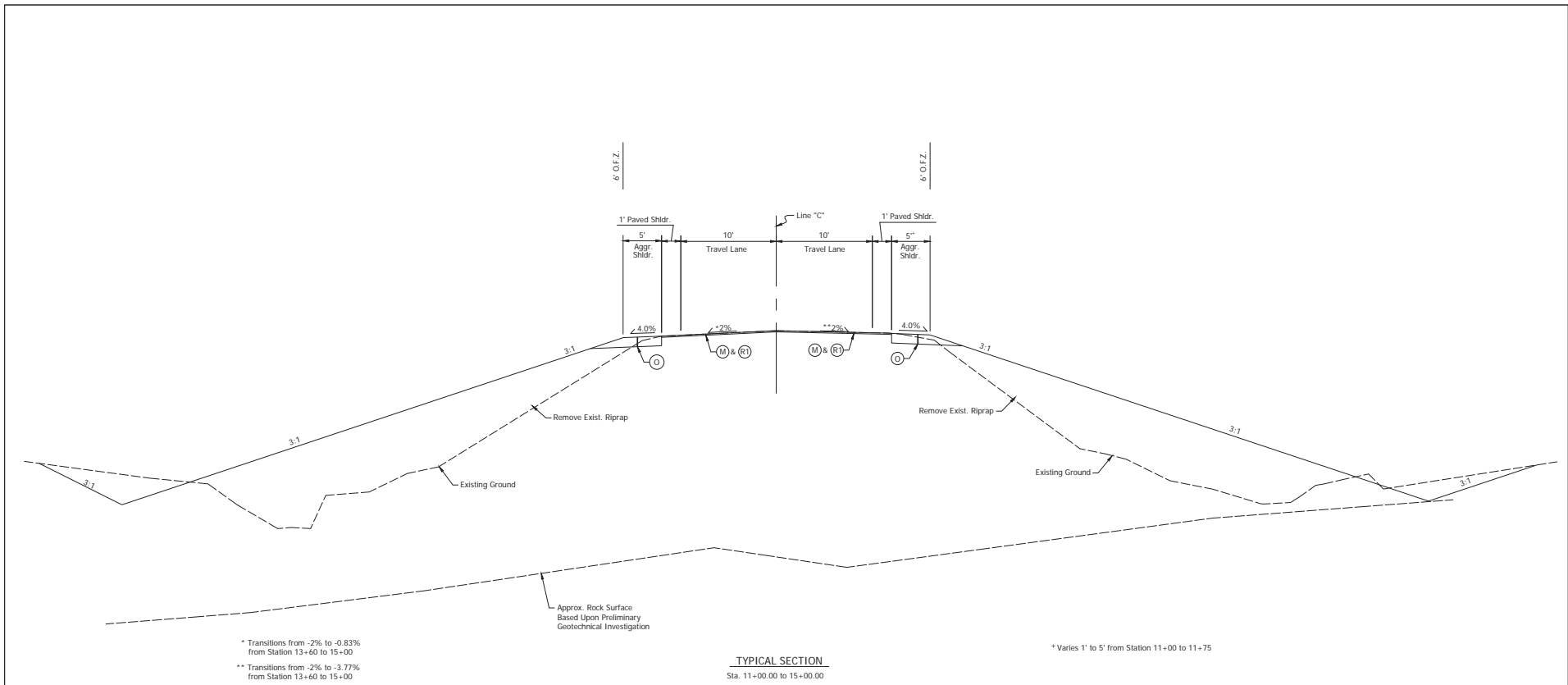
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DESIGN ENGINEER		
DESIGNED: NAW	DRAWN: CCW	
CHECKED: JAW	CHECKED: NAW	

INDIANA DEPARTMENT OF TRANSPORTATION	
INDEX SHEET	

HORIZONTAL SCALE	BRIDGE FILE
No Scale	-
VERTICAL SCALE	DESIGNATION
-	1601034
SURVEY BOOK	SHEETS
-	2 of ...
CONTRACT	PROJECT
R-39919	1601034

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Date: May 05, 2020, 2:03pm User Name: celson File: S:\2017\17-0025\01\Task\QC\QA-HMA\Typical Section.dwg



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 ** Transitions from -2% to -3.77% from Station 13+60 to 15+00

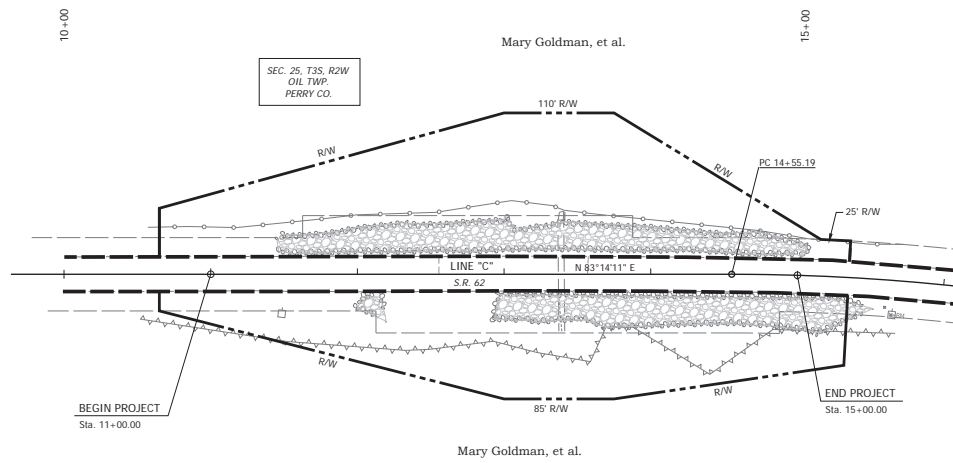
Preliminary

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DESIGN ENGINEER	
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CHECKED: JAW	CHECKED: NAW

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTION
LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	
VERTICAL SCALE	DESIGNATION
---	1601034
SURVEY BOOK	SHEETS
	3 of --
CONTRACT	PROJECT
R-39919	1601034



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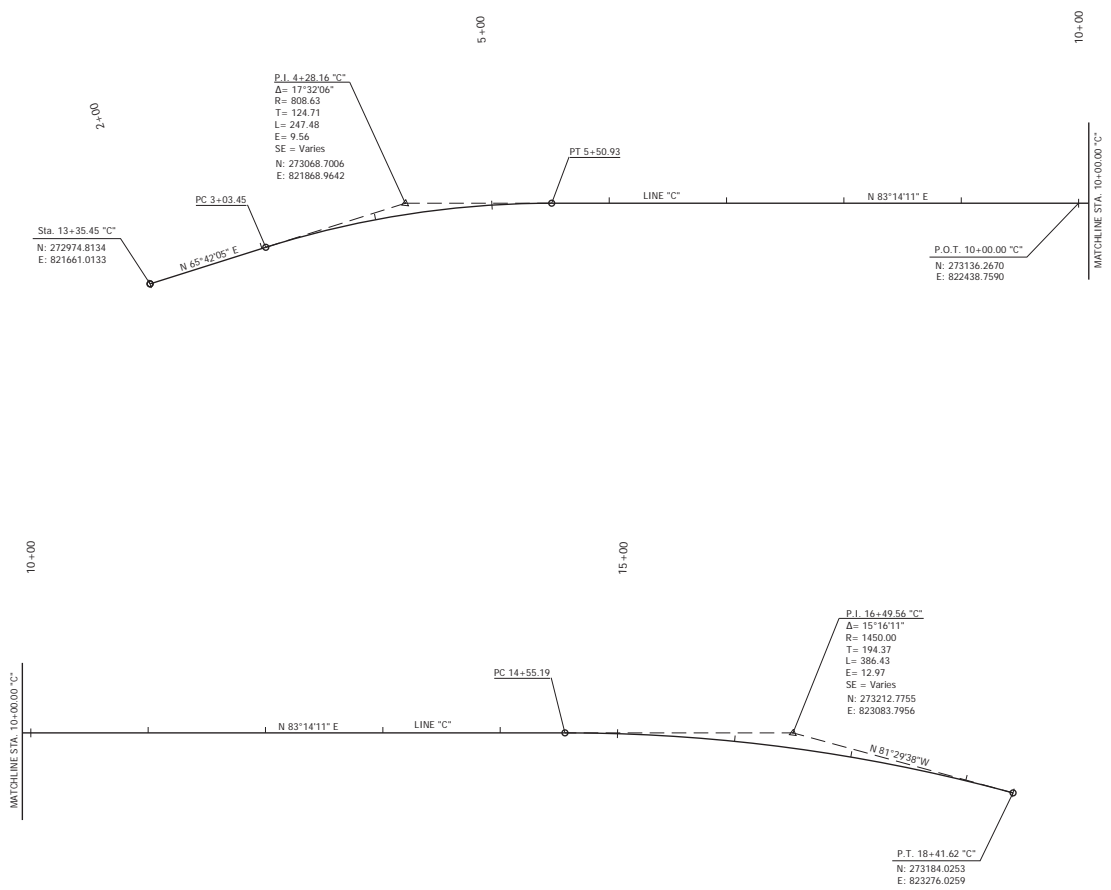
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RECOMMENDED FOR APPROVAL _____ DATE _____	
DESIGN ENGINEER	
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CHECKED: JAW	CHECKED: NAW

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT 1

HORIZONTAL SCALE	BRIDGE FILE
1"=40'	
VERTICAL SCALE	DESIGNATION
---	1601034
SURVEY BOOK	SHEETS
	4 of --
CONTRACT	PROJECT
R-39919	1601034



Preliminary

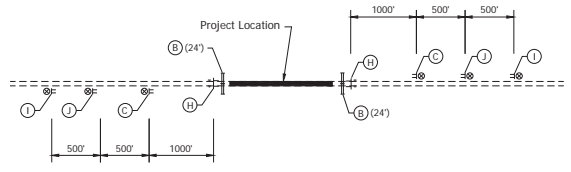
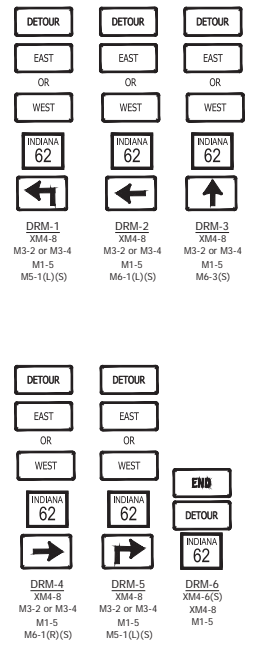
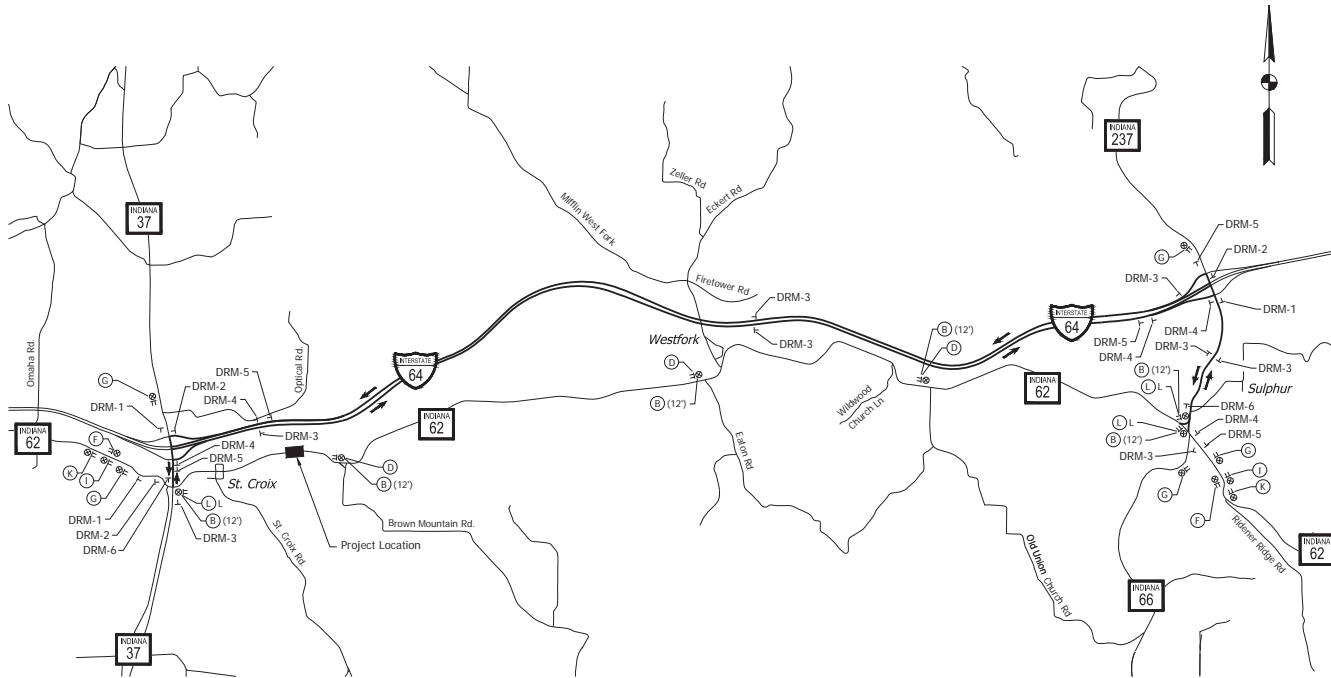
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DESIGNED: NAW	DRAWN: CCW	
CHECKED: JAW	CHECKED: NAW	

INDIANA
DEPARTMENT OF TRANSPORTATION

GEOMETRIC TIE-UP

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
---	1601034
SURVEY BOOK	SHEETS
	5 of --
CONTRACT	PROJECT
R-39919	1601034

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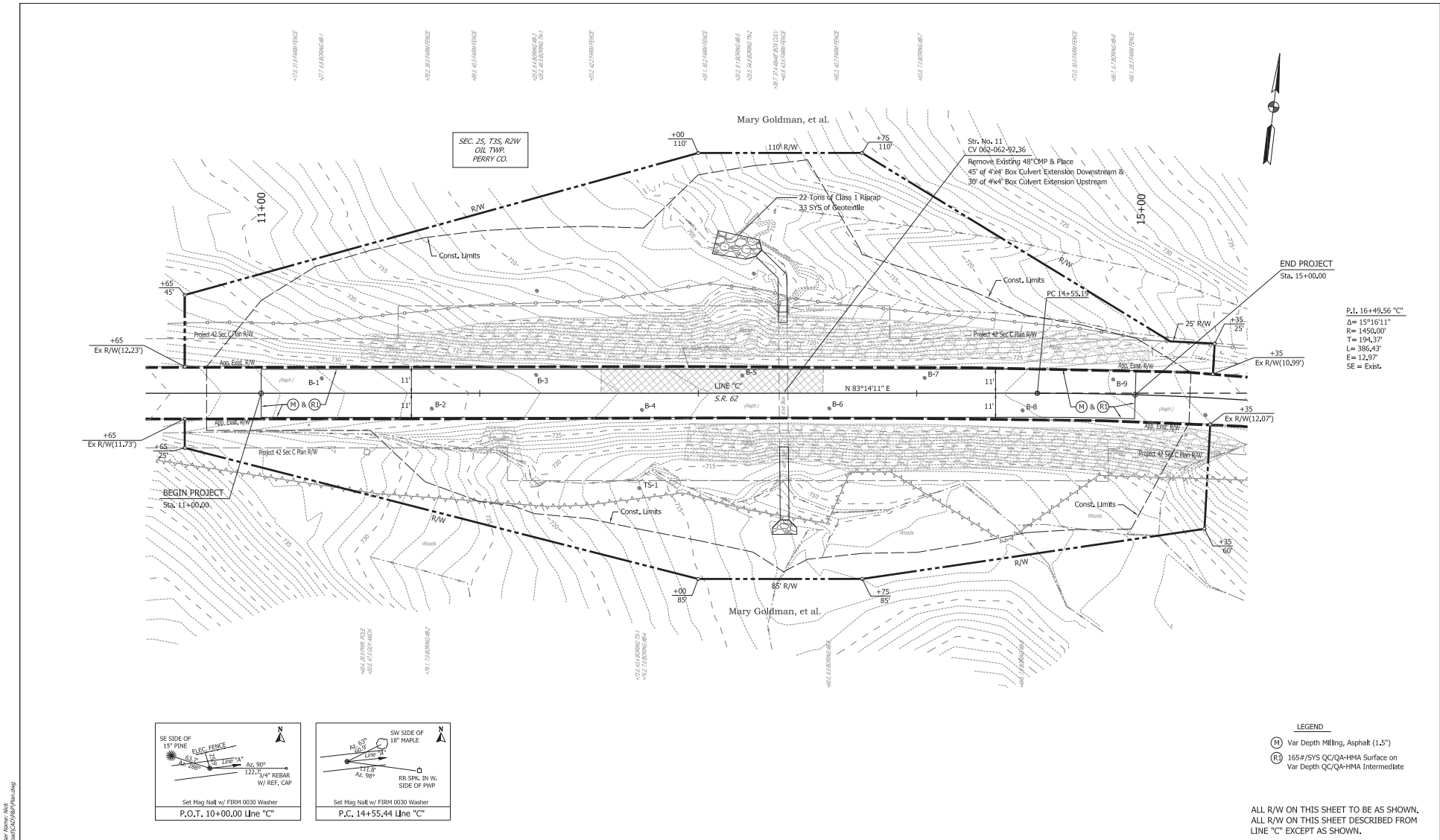


- Detour**
- Project Area Along S.R.62 Shall Be Closed To Thru Traffic. Detour Westbound Thru Traffic North On S.R.237 To I64, West On I64 To S.R.37, & South On S.R.37 to S.R.62. Detour Eastbound Traffic North On S.R.37 To I64, East On I64 To S.R.237, & South On S.R.237 To S.R.62.
 - Detour Shall Remain In Place Throughout Construction.
 - Contractor Shall Maintain Temporary Access To All Properties During Construction.
 - Location of Signs Are Approximate & Shall Be Field Verified By Contractor.

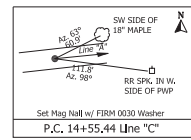
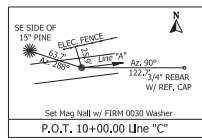
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Preliminary

RECOMMENDED FOR APPROVAL _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			DESIGN ENGINEER _____	DESIGNATION
DESIGNED: NAW	DRAWN: CCW	MAINTENANCE OF TRAFFIC DETOUR	VERTICAL SCALE	1601034
CHECKED: JAW	CHECKED: NAW		SURVEY BOOK	SHEETS
			6	of
			CONTRACT	PROJECT
			R-39919	1601034



P.L. 16+49.56 "C"
 $\Delta = 15^\circ 16' 11''$
 $R = 1450.00'$
 $L = 194.37'$
 $E = 386.43'$
 $SE = Exst.$



- LEGEND**
- (M) Var Depth Milling, Asphalt (1.5")
 - (R) 165#/SYS QC/QA-HMA Surface on Var Depth QC/QA-HMA Intermediate

ALL R/W ON THIS SHEET TO BE AS SHOWN.
 ALL R/W ON THIS SHEET DESCRIBED FROM LINE "C" EXCEPT AS SHOWN.

- Notes:**
- 1) Station/Offset Topnotes, Benchmarks, & Right-of-Way Described from Line "C".
 - 2) See Geometric Tie-Up Sheet for Line "C" Alignment Information.
 - 3) All Stationing off of Line "C" Unless Otherwise Noted.

Preliminary

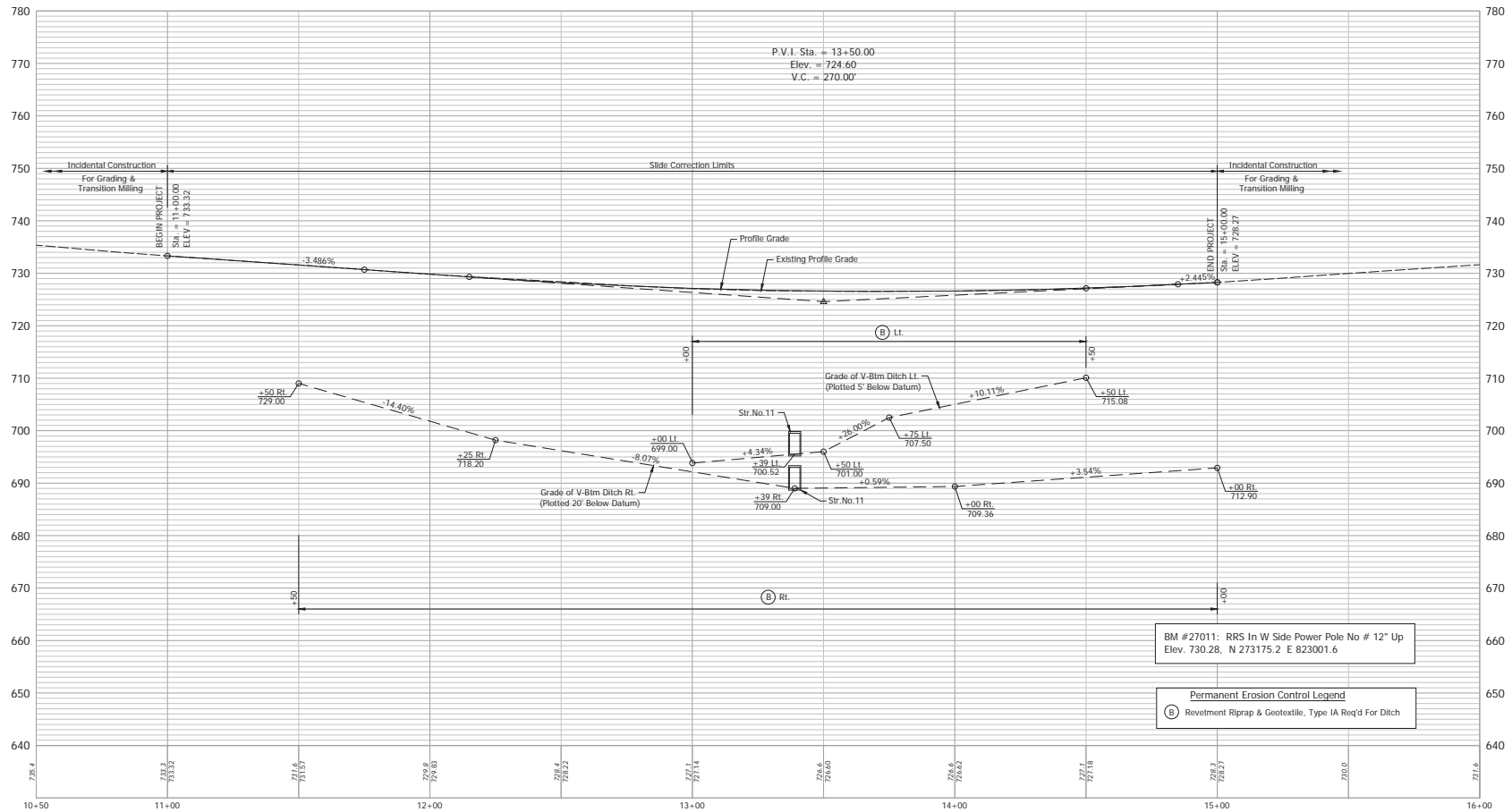
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNER	NAW	CCW
CHECKED	JAW	NAW

**INDIANA
DEPARTMENT OF TRANSPORTATION**

PLAN LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
1"=10'	1601034
SURVEY BOOK	SHEETS
	7 of 7
CONTRACT	PROJECT
R-39919	1601034

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Preliminary

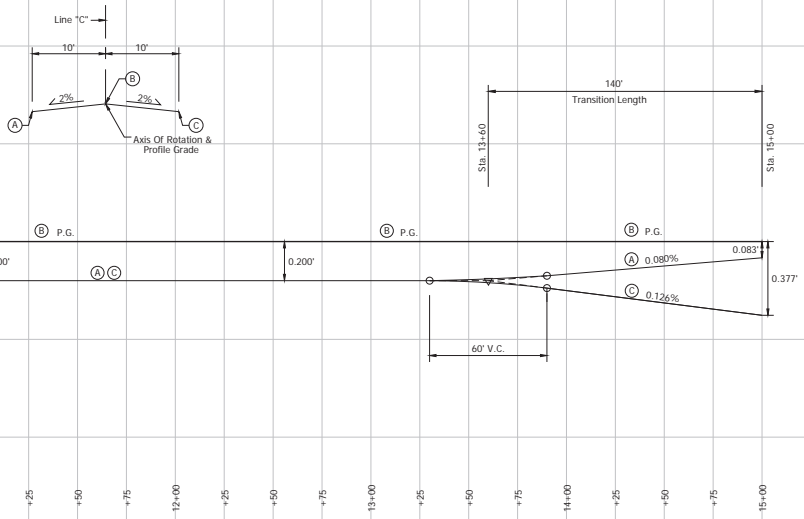
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DESIGNED: MAW	DRAWN: CCW	
CHECKED: JAW	CHECKED: MAW	

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	DESIGNATION
VERTICAL SCALE	1601034
1" = 10'	SURVEY BOOK
	8 of
CONTRACT	PROJECT
R-39919	1601034

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LINE "C"
45 m.p.h. Design Speed

Preliminary

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: NAW	DRAWN: CCW	
CHECKED: JAW	CHECKED: NAW	

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SLOPE TRANSITION
LINE "C"

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	1"=30'
VERTICAL SCALE	DESIGNATION
1"=0.3'	1601034
SURVEY BOOK	SHEET
	9 of ...
CONTRACT	PROJECT
R-39919	1601034

Date: May 05, 2020, 2:02pm User Name: eoban File: S:\2017\17-0025\Drawings\1601034\1601034.dwg

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH "W" FEET	LENGTH "L" FEET	DISTANCE BEYOND R/W LINE FEET	RAJII "R" FEET	GRADE (LESS THAN 10% NOT SHOWN) 1 %	EXCAVATION CYS. CUT FILL	D-1 JOINT'S 1" DIA., 15' O.C. LFT	O/OA PC/P 7' SYS	O/OA PC/P 6' OVERLAY SYS	DENSE GRADED SUBBASE 6" CYS	O/OA HMA, ___			HMA FOR WIDENING			JOINT ADHESIVE, SURFACE LFT	JOINT ADHESIVE, INTERMEDIATE LFT	LIQUID ASPHALT SEALANT LFT	PC/P FOR APPROACHES, 6' SYS.	PC/P FOR APPROACHES, 9' SYS.	ASPHALT FOR TACK COAT TONS	COMPACTED AGG. NO. 53 12" TONS	COMPACTED AGG. NO. 5 12" TONS	GEOTEXTILE FOR PAVEMENT TYPE B SYS.	SUBGRADE TREATMENT, TYPE IC SYS.	SUBGRADE TREATMENT, TYPE II SYS.	VAR. DEPTH MILLING, ASPHALT, 1.5" SYS.	SURFACE BEYOND R/W LINE			MILLING TRANSITION SYS	REMARKS
												SURFACE	INTER	BASE	SURFACE	INTER	BASE													COMP. AGG. NO. 53	HMA	CONCRETE		
												#/SYS.			#/SYS.																			
												165	VAR DEPTH	880	165	275	880																	
MAINLINE																																		
Line "C" 11+00.00 to 15+00.00	State Collector	Varies	400									XXX	XXX								XXX									XX				
TOTAL												XXX	XXX								XXX								XX					

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION					SIZE PIPE TYPE FT. INCHES	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOW LINE				SERVICE LIFE YRS.	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL CYS	TYPE	FLOWABLE BACKFILL CYS	TYPE	GEOTEXTILE SYS	REINFORCEMENT RIPRAP TON	UNIFORM RIPRAP TON	SCOUR PROTECTION					CONCRETE CLASS A FOR STRUCTURES CYS	VIDEO INSPECTION LFT	PIPE END SECTION EA.	CONCRETE PIPE ANCHOR ADJUST CASTING TO GRADE EA.	SAFETY METAL END SECTION EA.	CONNECT TO STRUCTURE	REMARKS	
	STATION	LEFT	CROSS MEDIAN	RIGHT	OFFSET					COVER	UP STREAM	DOWN STREAM														SUMP DEPTH IN	GEOTEXTILE SYS	RIPRAP TYPE	TON								
	LFT	ELEV.	ELEV.																																		
Line "C" 11	13+39	X				48 x 48	Box Culvert Extension																														

Preliminary

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE --- VERTICAL SCALE ---	BRIDGE FILE DESIGNATION 1601034
DESIGNED: NAW DRAWN: CCW	APPROACH & STRUCTURE DATA TABLES	SURVEY BOOK	SHEET 10 of ---
CHECKED: JAW CHECKED: NAW		CONTRACT R-39919	PROJECT 1601034

Date: May 05, 2020, 2:02pm User Name: c0509
File: S:\1\301717\48252017\Bids\CDOT\Misc\HW\Approach_Structure_Data.dwg

Categorical Exclusion
Appendix C
Early Coordination



February 20, 2020

«Name»
«Title»
«Address1»
«Address2»
«City», «State» «Zip»

Sample Early Coordination Letter

Re: Des. No. 1601034
Slide Correction Project
State Project
State Road (SR) 62, Approximately 0.88 mile E of SR 37 at RP 92.4
Perry County, Indiana

Dear «Salu»,

The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT) Vincennes District propose to proceed with a slide correction project on SR 62, 0.88 mile east of SR 37 at RP 92.4 (Des. No. 1601034).

This letter is part of the early coordination phase of the environmental review. At this time, we are requesting comments from your area of expertise regarding any possible environmental effects (social and natural) associated with this project. Please use the above Des. No. and project description in your reply. Your comments will be incorporated into the formal environmental study. Your cooperation in this endeavor is appreciated.

Project Location and Existing Conditions

The proposed project is located on SR 62, Perry County, Indiana, approximately 0.88 mile east of SR 37. Specifically, the project is located in Section 25, Township 3 South, and Range 2 West in Oil Township as depicted on the Branchville U.S. Geological Survey 1:24,000 scale quadrangle. Adjacent land use consists of residential, agricultural lands, and wooded areas.

Within the project area, SR 62 is functionally classified as rural major collector. The typical cross section consists of two ten-foot travel lanes with two-foot paved shoulders on each side. The pavement condition in March of 2017 was fair with pavement distress in the eastbound and westbound lanes. Pavement distress was notably greater in the westbound lane near the existing cross culvert. According to the geotechnical investigation, the existing pavement is composed of 12 to 13 inches of asphaltic pavement. Please see attachments for maps and photographs of the proposed project area.

Draft Purpose and Need

The need for this project is due to the land slide occurring along both eastbound and westbound lanes of SR 62, causing the pavement and roadside embankment to deteriorate and fail. The pavement failure is occurring in both lanes but is more prominent along the westbound lane. The purpose of the project is to correct the slope failure, resulting in improved safety and mobility along SR 62.

Proposed Project

The proposed project is a slide correction. The slide will be corrected by constructing a 400-foot long buttress fill with 3:1 sideslopes. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) is located within the project limits, and it is anticipated that lengthening of the box will be required as part of the project. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay construction.

The maintenance of traffic (MOT) will be a detour which will utilize SR 37, I-64, and SR 237. It is anticipated the project will be bundled with 11 other slides along SR 62, thus access will need to be maintained for local traffic. It is anticipated multiple project sites will not be allowed to be constructed concurrently to maintain access for local traffic.

Construction is anticipated to begin in Fiscal Year (FY) 2021.

Right-of-Way (ROW)

This project is anticipated to require approximately 1.4 acres of permanent ROW. No temporary ROW is anticipated. Tree clearing is anticipated within the proposed ROW.

Environmental Resources

A combined Red Flag Investigation (RFI) was performed for a 0.5-mile radius for this project area and two additional slide correction project areas on SR 62 (Des No. 1601035 and 1601036). One "Red Flag" was identified within the Des No. 1601034 0.5-mile search radius. A culvert, CV 062-062-92.36 is within the Des No. 1601034 project area. A Waters of the US Report will be prepared and coordination with INDOT Ecology and Waterway Permitting will occur. This project is outside the Karst Memorandum of Understanding Potential Karst Features Region.

Section 106

The National Register of Historic Places (National Register) and the Indiana Register of Historic Sites and Structures (State Register) were reviewed using the State Historic Architectural and Archaeological Research Database (SHAARD) and SHAARD Geographic Information Systems (GIS). No National Register-listed resources were identified within the project vicinity. The *Perry County Interim Report* (1992) was examined, and it was determined that there are two previously surveyed properties within the vicinity of the project area. The Indiana Historic Bridge Inventory Volume 2: Listing of Historic and Non-Historic Bridges (February 2009) by Mead & Hunt was reviewed. No bridges listed in or eligible for listing in the National Register are located near the project area. No cemeteries are located within the vicinity of the project area. As the project area includes undisturbed soils, an archaeological field review is recommended. Section 106 coordination with INDOT Cultural Resources Office, the State Historic Preservation Officer (SHPO), and other identified consulting parties will be conducted.

Range-Wide Informal Programmatic Consultation

Perry County is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*). The U.S. Fish and Wildlife Service (USFWS) Range-wide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat (NLEB) will be completed for this project.

Early Coordination

This letter is part of the early coordination review process. You are asked to review this information and provide any comments you may have relative to anticipated impacts of the project on areas in which you

have jurisdiction or special expertise. We will incorporate your comments into a study of the project's environmental impacts. To facilitate the development of this project, you are asked to reply within **30 calendar days** of receipt of this letter. If no response is received by that date, it will be assumed you have no comments at the present time.

If you have any questions regarding this project, please feel free to contact me at (812) 479-6200 or at hhume@lochgroup.com. Additionally, should you want to contact the sponsor for this project, INDOT Vincennes District, please contact the Project Manager, Kyanna Moon at (812) 203-2009 or kmoon1@indot.IN.gov.

Thank you in advance for your input.

Sincerely,



Holly Hume
Environmental Biologist
Lochmueller Group, Inc.

Attachments:

- General Location Map
- USGS Topographic Map
- Red Flag Investigation Maps
- Photographs
- Preliminary Design Plans

Note: Attachments have been removed to avoid duplication and reduce file size.

Distribution List:

- Natural Resources Conservation Service, Indianapolis Office (electronic submission)
- U.S. Housing and Urban Development (electronic submission)
- National Park Service
- FHWA – Indiana Division (electronic submission)
- IDNR, Division of Fish and Wildlife (electronic submission)
- INDOT, Office of Public Involvement (electronic submission)
- INDOT, Vincennes District (electronic submission)
- U.S. Forest Service, Hoosier National Forest (electronic submission)
- U.S. Army Corps of Engineers, Louisville District (electronic submission)
- Perry County Highway Department
- Perry County Council (electronic submission)
- Perry County Commissioners (electronic submission)
- Perry Central Community Schools (electronic submission)
- Perry County Surveyor (electronic submission)
- Perry County Emergency Management Agency (electronic submission)
- Perry County Sheriff's Department (electronic submission)

- Central Perry Volunteer Fire Department (electronic submission)
- Perry County Soil & Water Conservation District (electronic submission)
- Oil Township Trustee
- Indiana Geological Survey (IGS) (online submission)
- IDEM (online submission)
- IDEM, Groundwater Section (online submission)



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 North Senate Avenue - Indianapolis, IN 46204
(800) 451-6027 - (317) 232-8603 - www.idem.IN.gov

INDOT
Kyanna Moon
3650 S US 41
Vincennes , IN 47591
Date

Lochmueller Group, Inc.
Holly Hume
6200 Vogel Road
Evansville , IN 47715

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT) Vincennes District propose to proceed with a slide correction project on SR 62, 0.88 mile east of SR 37 at RP 92.4 (Des. No. 1601034). Specifically, the project is located in Section 25, Township 3 South, and Range 2 West in Oil Township as depicted on the Branchville U.S. Geological Survey 1:24,000 scale quadrangle. Adjacent land use consists of residential, agricultural lands, and wooded areas. The need for this project is due to the land slide occurring along both eastbound and westbound lanes of SR 62, causing the pavement and roadside embankment to deteriorate and fail. The pavement failure is occurring in both lanes but is more prominent along the westbound lane. The purpose of the project is to correct the slope failure, resulting in improved safety and mobility along SR 62. The proposed project is a slide correction. The slide will be corrected by constructing a 400-foot long buttress fill with 3:1 sideslopes. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) is located within the project limits, and it is anticipated that lengthening of the box will be required as part of the project. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay construction. Construction is anticipated to begin in Fiscal Year (FY) 2021. This project is anticipated to require approximately 1.4 acres of permanent ROW. No temporary ROW is anticipated. Tree clearing is anticipated within the proposed ROW. A combined Red Flag Investigation (RFI) was performed for a 0.5-mile radius for this project area and two additional slide correction project areas on SR 62 (Des No. 1601035 and 1601036). One "Red Flag" was identified within the Des No. 1601034 0.5-mile search radius. A culvert, CV 062-062-92.36 is within the Des No. 1601034 project area. A Waters of the US Report will be prepared and coordination with INDOT Ecology and Waterway Permitting will occur. This project is outside the Karst Memorandum of Understanding Potential Karst Features Region.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements

may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: <http://www.in.gov/idem/5283.htm> (<http://www.in.gov/idem/5283.htm>).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (<http://www.lrl.usace.army.mil/orf/default.asp>) (<http://www.lrl.usace.army.mil/orf/default.asp>) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciusko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at <http://www.in.gov/idem/4396.htm> (<http://www.in.gov/idem/4396.htm>). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>).
3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into

isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.

4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: <http://www.in.gov/idem/4384.htm> (<http://www.in.gov/idem/4384.htm>) for the appropriate staff contact to further discuss your project.
5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the follow statutes:
 - IC 14-26-2 Lakes Preservation Act 312 IAC 11
 - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
 - IC 14-28-1 Flood Control Act 310 IAC 6-1
 - IC 14-29-1 Navigable Waterways Act 312 IAC 6
 - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
 - IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: <http://www.in.gov/dnr/water/9451.htm> (<http://www.in.gov/dnr/water/9451.htm>) . Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
 - <http://www.in.gov/idem/4902.htm> (<http://www.in.gov/idem/4902.htm>)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (<http://www.in.gov/idem/4917.htm#constreq> (<http://www.in.gov/idem/4917.htm#constreq>)), and as described in 327 IAC 15-5-6.5 (<http://www.in.gov/legislative/iac/T03270/A00150> [PDF] (<http://www.in.gov/legislative/iac/T03270/A00150.PDF>), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (<http://www.in.gov/isda/soil/contacts/map.html> (<http://www.in.gov/isda/soil/contacts/map.html>)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from

IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: <http://www.in.gov/idem/4900.htm> (<http://www.in.gov/idem/4900.htm>).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317/232-4080) for addition project input.
8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.
9. For projects involving effluent discharges to waters of the State of Indiana , contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (<http://www.in.gov/idem/4148.htm> (<http://www.in.gov/idem/4148.htm>)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus *Histoplasma capsulatum*, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>.)

The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf.) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit:

<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm> (<http://www.in.gov/isdh/regsvcs/radhealth/radon.htm>), <http://www.in.gov/idem/4145.htm> (<http://www.in.gov/idem/4145.htm>), or <http://www.epa.gov/radon/index.html> (<http://www.epa.gov/radon/index.html>).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at <http://www.in.gov/icpr/webfile/formsdiv/44593.pdf> (<http://www.in.gov/icpr/webfile/formsdiv/44593.pdf>).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee

of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit:
<http://www.in.gov/idem/4983.htm> (<http://www.in.gov/idem/4983.htm>).

4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: <http://www.in.gov/isdh/19131.htm> (<http://www.in.gov/isdh/19131.htm>).
5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (<http://www.ai.org/legislative/iac/T03260/A00080.PDF> (<http://www.ai.org/legislative/iac/T03260/A00080.PDF>)).
6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.ai.org/legislative/iac/t03260/a00020.pdf (<http://www.ai.org/legislative/iac/t03260/a00020.pdf>)). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
7. For more information on air permits visit: <http://www.in.gov/idem/4223.htm> (<http://www.in.gov/idem/4223.htm>), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit <http://www.in.gov/idem/4998.htm> (<http://www.in.gov/idem/4998.htm>).
3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).

6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: <http://www.in.gov/idem/4999.htm> (<http://www.in.gov/idem/4999.htm>).

FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that it is the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at <http://www.in.gov/idem/5284.htm> (<http://www.in.gov/idem/5284.htm>), is used.

Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

Project Description

The Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT) Vincennes District propose to proceed with a slide correction project on SR 62, 0.88 mile east of SR 37 at RP 92.4 (Des. No. 1601034). Specifically, the project is located in Section 25, Township 3 South, and Range 2 West in Oil Township as depicted on the Branchville U.S. Geological Survey 1:24,000 scale quadrangle. Adjacent land use consists of residential, agricultural lands, and wooded areas. The need for this project is due to the land slide occurring along both eastbound and westbound lanes of SR 62, causing the pavement and roadside embankment to deteriorate and fail. The pavement failure is occurring in both lanes but is more prominent along the westbound lane. The purpose of the project is to correct the slope failure, resulting in improved safety and mobility along SR 62. The proposed project is a slide correction. The slide will be corrected by constructing a 400-foot long buttress fill with 3:1 sideslopes. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) is located within the project limits, and it is anticipated that lengthening of the box will be required as part of the project. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay construction. Construction is anticipated to begin in Fiscal Year (FY) 2021. This project is anticipated to require approximately 1.4 acres of permanent ROW. No temporary ROW is anticipated. Tree clearing is anticipated within the proposed ROW. A combined Red Flag Investigation (RFI) was performed for a 0.5-mile radius for this project area and two additional slide correction project areas on SR 62 (Des No. 1601035 and 1601036). One "Red Flag" was identified within the Des No. 1601034 0.5-mile search radius. A culvert, CV 062-062-92.36 is within the Des No. 1601034 project area. A Waters of the US Report will be prepared and coordination with INDOT Ecology and Waterway Permitting will occur. This project is outside the Karst Memorandum of Understanding Potential Karst Features Region.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date: 2/27/2020

Signature of the INDOT

Project Engineer or Other Responsible Agent Kyanna Moon

Kyanna Moon

Date: 02/20/2020

Signature of the

For Hire Consultant Holly Hume

Holly Hume



Organization and Project Information

Project ID: INDOT Vincennes District
Des. ID: 1601034
Project Title: SR 62 at RP 92.4 Slide Correction
Name of Organization: Lochmueller Group, Inc.
Requested by: Holly Hume

Environmental Assessment Report

1. Geological Hazards:
 - None documented in the area
2. Mineral Resources:
 - Bedrock Resource: High Potential
 - Sand and Gravel Resource: None documented in the area
3. Active or abandoned mineral resources extraction sites:
 - Petroleum Exploration Wells

*All map layers from Indiana Map (maps.indiana.edu)

DISCLAIMER:

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey

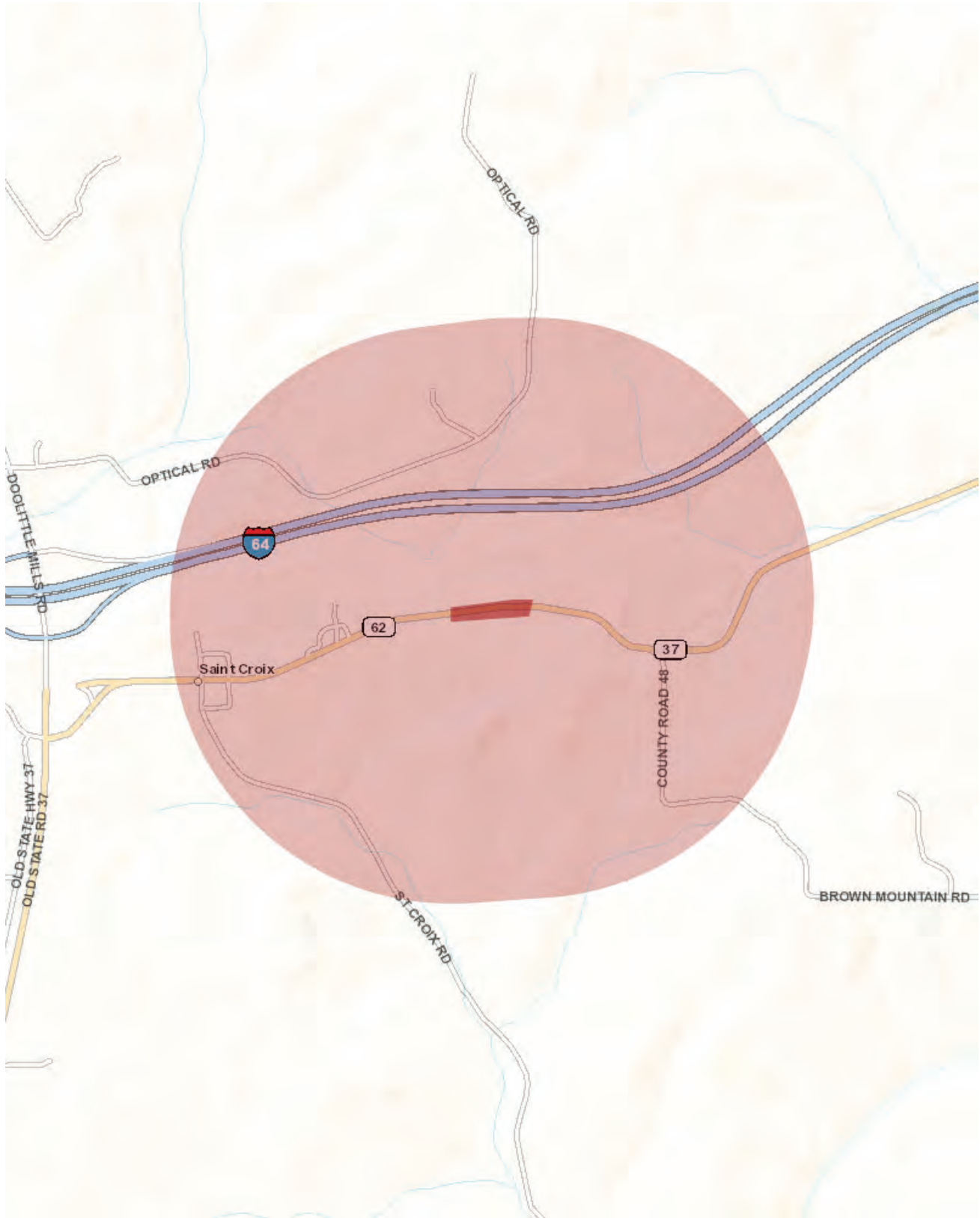
Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: February 20, 2020





Metadata:

- https://maps.indiana.edu/metadata/Geology/Petroleum_Wells.html
- https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html

February 21, 2020

Holly Hume
Lochmueller Group, Inc.
6200 Vogel Road
Evansville, Indiana 47715

Dear Ms. Hume:

The proposed project to address the land slide occurring along both eastbound and west bound lanes of State Road 62 causing the pavement and roadside embankment to deteriorate and fail in Perry County, Indiana, (Des No 1601034), as referred to in your letter received February 20, 2020, will not cause a conversion of prime farmland.

If you need additional information, please contact John Allen at 317-295-5859.

Sincerely,

JERRY RAYNOR Digitally signed by JERRY
RAYNOR
Date: 2020.02.23 22:18:05 -05'00'

JERRY RAYNOR
State Conservationist

Helping People Help the Land.



USDA is an equal opportunity provider, employer and lender.

Hume, Holly

From: Falls, Ryan G <RFalls@indot.IN.gov>
Sent: Thursday, February 27, 2020 8:17 AM
To: Hume, Holly
Cc: Townsend, Daniel
Subject: RE: Vincennes Early Coordination Response, Des 1601034, SR 62 Slide Correction, 0.88 mile east of SR 37 at RP 92.4, Perry County, IN

Holly Hume,

At this time, our office has no comment on this project. Thank you for the opportunity to respond to early coordination.

Ryan Falls

Capital Program Management-Senior Environmental Manager Supervisor

Indiana Department of Transportation

3650 South US Highway 41

Vincennes, IN 47591

Office: 812-895-7326

Cell: 812-582-1387

Email: rfalls@indot.IN.gov



From: Hume, Holly <HHume@lochgroup.com>
Sent: Thursday, February 20, 2020 9:17 AM
To: Falls, Ryan G <RFalls@indot.IN.gov>
Cc: Townsend, Daniel <DTownsend@lochgroup.com>
Subject: Early Coordination, Des 1601034, SR 62 Slide Correction, 0.88 mile east of SR 37 at RP 92.4, Perry County, IN

****** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ******

Dear Mr. Falls,

We are working on the environmental document for the SR 62 Slide Correction Project, 0.88 mile east of SR 37 at RP 92.4 in Perry County, IN (Des 1601034). Please find the early coordination package for your review and comment.

Please let me know if you have any questions.

Thank you,

Holly

Holly Hume

Environmental Biologist

Lochmueller Group

6200 Vogel Road, Evansville, IN 47715

812.759.4107 (direct)

HHume@lochgroup.com

<http://lochgroup.com>

THIS IS NOT A PERMIT

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Early Coordination/Environmental Assessment

DNR #: ER-22247 Request Received: February 20, 2020

Requestor: Lochmueller Group Inc
Holly Hume
6200 Vogel Road
Evansville, IN 47715

Project: SR 62 slide correction, about 0.88 mile east of SR 37, at RP 92.4; Des #1601034

County/Site info: Perry

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment: Formal approval by the Department of Natural Resources under the regulatory programs administered by the Division of Water is not required for this project.

Natural Heritage Database: The Natural Heritage Program's data have been checked. The Hoosier National Forest is located south of the project area. Also, the state threatened French's shootingstar (*Dodecatheon frenchii*), and Golden seal (*Hydrastis Canadensis*), a state watch list species, have been documented within 1/2 mile east of the project area. The Division of Nature Preserves does not anticipate any impacts to these plant species as a result of this project.

Fish & Wildlife Comments: The measures below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; low endophyte tall fescue may be used in the ditch bottom and side slopes only.
2. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
3. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.

Contact Staff: Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife
Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.



Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife

Date: March 18, 2020

Holly Hume

From: McWilliams, Robin <robin_mcwilliams@fws.gov>
Sent: Thursday, June 11, 2020 3:52 PM
To: Holly Hume
Subject: Re: [EXTERNAL] Des 1601034 SR Slide Correction Coordination

Dear Holly,

This responds to your recent letter requesting our comments on the aforementioned project.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation Policy.

The project is within the range of the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*) and according to your letter, will follow the Indiana bat/northern long-eared bat programmatic consultation process. The Service has 14 days after the "Not Likely to Adversely Affect" determination letter is generated. We will review that information once it is received; if you do not receive a response within 14 days, we have no additional comments for the two bats covered under the programmatic.

The project is also within the range of the gray bat (*Myotis grisescens*). Gray bats are year-round cave obligates, roosting in caves both during hibernation and summer maternity season; they may also occasionally use structures for roosting. Foraging habitat of gray bats is generally correlated with rivers, streams, lakes or reservoirs and associated shorelines and riparian areas. They use forested corridors and tree cover to travel between caves and foraging areas. We do not anticipate impacts to gray bats as a result of the project.

Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no objection to the project as currently proposed. However, should new information arise pertaining to project plans or a revised species list be published, it will be necessary for the Federal agency to reinitiate consultation. Standard recommendations are provided below.

The project is in the karst area of Indiana. If any karst features are encountered, a karst survey should be conducted, with mitigation measures as necessary, in accordance with our 1993 Memorandum of Understanding.

Section 4(f) of the Transportation Act of 1966 requires that land from a publicly owned park, recreation area or wildlife or waterfowl refuge or any significant public or private historical site shall not be used by the Federal Highway Administration for highway right-of-way unless a determination is made that there is no feasible and prudent alternative to the use of land from such property. Further, the proposed action must include all possible planning to minimize harm to the property which results from such use. A Section 4(f) determination concerning project impacts may be necessary as part of the environmental review process if federal funds are utilized.

We appreciate the opportunity to comment at this early stage of project planning. If you have any questions about our recommendations, please call (812) 334-4261 x. 207.

Sincerely,
Robin McWilliams Munson

Standard Recommendations:

1. Do not clear trees or understory vegetation outside the construction zone boundaries. **(This restriction is not related to the “tree clearing” restriction for potential Indiana Bat habitat.)**
2. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap. Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-bottom culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community.
3. Restrict channel work and vegetation clearing to the minimum necessary for installation of the stream crossing structure.
4. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If riprap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat.
5. Implement temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT’s standard specifications.
6. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams.
7. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing

Robin McWilliams Munson
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
620 South Walker Street
Bloomington, IN 46142
812-334-4261

Mon-Tues 8-3:30p
Wed-Thurs 8:30-3p Telework

From: Holly Hume <HHume@lochgroup.com>
Sent: Thursday, June 11, 2020 4:22 PM
To: McWilliams, Robin <robin_mcwilliams@fws.gov>
Cc: Daniel Townsend <DTownsend@lochgroup.com>
Subject: [EXTERNAL] Des 1601034 SR Slide Correction Coordination

Hi Robin,
I’m working on the environmental document for Des 1601034 in Perry County, which is one of 12 slide correction projects along SR 62 in Perry and Crawford counties. Early coordination for the project was initiated on February 20, 2020; however, the USFWS was inadvertently omitted from the original distribution.

The project was evaluated using the IPaC system on January 31, 2020. The project received a finding of May Affect – Not Likely to Adversely Affect. However, INDOT early coordination guidance states that USFWS should receive an early coordination package if the project does not fall under the USFWS Interim Guidance (2013) for listed species other than the Indiana bat and/or the northern long-eared bat. The gray bat is listed on the official species list generated from IPaC.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

January 13, 2020

Consultation Code: 03E12000-2020-SLI-0517

Event Code: 03E12000-2020-E-02635

Project Name: Des No. 1601034; SR 62, 0.88 mile east of SR 37 at RP 92.4; Slide Correction; Perry County

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project "may affect" listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website <http://ecos.fws.gov/ipac/> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - <http://www.fws.gov/midwest/endangered/section7/s7process/index.html>. This website contains step-by-step instructions which will help you

determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq.*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at <http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html> to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

(812) 334-4261

Project Summary

Consultation Code: 03E12000-2020-SLI-0517

Event Code: 03E12000-2020-E-02635

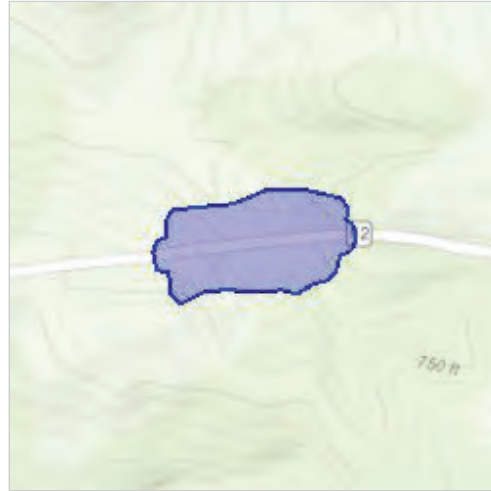
Project Name: Des No. 1601034; SR 62, 0.88 mile east of SR 37 at RP 92.4; Slide Correction; Perry County

Project Type: TRANSPORTATION

Project Description: The proposed project is a slide correction on State Road (SR) 62, 0.88 mile east of SR 37 at RP 92.4 in Perry County. The slide will be corrected by a 400' long buttress fill with 3:1 sideslopes. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) conveys SR 62 over an Unnamed Tributary (UNT) of Tige Creek within the project limits. It is anticipated that lengthening of the box culvert will be required as part of the project. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay construction. Adjacent land use consists of agricultural areas, and forested areas with mature trees. This would be considered suitable summer habitat. Approximately 0.93 acre of tree clearing is anticipated. Dominant species in the proposed area of tree removal are sugar maple (*Acer saccharum*), black walnut (*Juglans nigra*), pin oak (*Quercus palustris*), and American sycamore (*Platanus occidentalis*). Tree clearing will occur between October 2021 and March 2022. On May 31, 2018 a search of the USFWS database by INDOT – Vincennes District staff was negative for endangered bat species within 0.5 mile of the project area. An RFI signed August 15, 2018 stated, “A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area.” A Bridge/Structure Assessment Form completed for the culvert and dated October 7, 2019 stated that no evidence of bats was found. Work is anticipated to begin in May 2021 and be completed by December 2022. No temporary or permanent lighting is anticipated.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/38.2257154107799N86.57695341793243W>



Counties: Perry, IN

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> ▪ Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

January 31, 2020

Consultation Code: 03E12000-2020-I-0517

Event Code: 03E12000-2020-E-03120

Project Name: Des No. 1601034; SR 62, 0.88 mile east of SR 37 at RP 92.4; Slide Correction;
Perry County

Subject: Concurrence verification letter for the 'Des No. 1601034; SR 62, 0.88 mile east of SR 37 at RP 92.4; Slide Correction; Perry County' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **Des No. 1601034; SR 62, 0.88 mile east of SR 37 at RP 92.4; Slide Correction; Perry County** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances,

Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Gray Bat, *Myotis grisescens* (Endangered)

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

Des No. 1601034; SR 62, 0.88 mile east of SR 37 at RP 92.4; Slide Correction; Perry County

Description

The proposed project is a slide correction on State Road (SR) 62, 0.88 mile east of SR 37 at RP 92.4 in Perry County. The slide will be corrected by a 400' long buttress fill with 3:1 sideslopes. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) conveys SR 62 over an Unnamed Tributary (UNT) of Tige Creek within the project limits. It is anticipated that lengthening of the box culvert will be required as part of the project. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay construction. Adjacent land use consists of agricultural areas, and forested areas with mature trees. This would be considered suitable summer habitat. Approximately 0.93 acre of tree clearing is anticipated. Dominant species in the proposed area of tree removal are sugar maple (*Acer saccharum*), black walnut (*Juglans nigra*), pin oak (*Quercus palustris*), and American sycamore (*Platanus occidentalis*). Tree clearing will occur between October 2021 and March 2022. On May 31, 2018 a search of the USFWS database by INDOT – Vincennes District staff was negative for endangered bat species within 0.5 mile of the project area. An RFI signed August 15, 2018 stated, "A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area." A Bridge/Structure Assessment Form completed for the culvert and dated October 7, 2019 stated that no evidence of bats was found. Work is anticipated to begin in May 2021 and be completed by December 2022. No temporary or permanent lighting is anticipated.

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See [Indiana bat species profile](#)

Automatically answered

Yes

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See [Northern long-eared bat species profile](#)

Automatically answered

Yes

3. Which Federal Agency is the lead for the action?

A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

7. Is the project located **within** a karst area?

No

8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the [national consultation FAQs](#).

Yes

9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

Yes

10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail?

No

11. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the [summer survey guidance](#) are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

No

12. Does the project include activities **within documented Indiana bat habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

13. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors?

Yes

14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

B) During the inactive season

15. Does the project include activities **within documented NLEB habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry triangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

16. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors?

Yes

17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?

B) During the inactive season

18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces?

Yes

19. Will the tree removal alter *any* **documented** Indiana bat or NLEB roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost?

No

20. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

21. Are *all* trees that are being removed clearly demarcated?

Yes

22. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

No

23. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

24. Does the project include slash pile burning?

No

25. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

Yes

26. Is there *any* suitable habitat^[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's current [summer survey guidance](#) for our current definitions of suitable habitat.

Yes

27. Has a bridge assessment^[1] been conducted **within** the last 24 months^[2] to determine if the bridge is being used by bats?

[1] See [User Guide Appendix D](#) for bridge/structure assessment guidance

[2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

SUBMITTED DOCUMENTS

- *CHY_Bat bridge assessment_Signed_FINAL2.pdf* <https://ecos.fws.gov/ipac/project/6E6ZPUBYZ5AGNLNERLAWYIT35Y/projectDocuments/20066759>

28. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)^[1]?

[1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

No

29. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?

No

30. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

31. Will the project involve the use of **temporary** lighting *during* the active season?

No

32. Will the project install new or replace existing **permanent** lighting?

No

33. Does the project include percussives or other activities (**not including tree removal/trimming or bridge/structure work**) that will increase noise levels above existing traffic/background levels?

Yes

34. Will the activities that use percussives (**not including tree removal/trimming or bridge/structure work**) and/or increase noise levels above existing traffic/background levels be conducted *during* the active season^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

Yes

35. Will *any* activities that use percussives (**not including tree removal/trimming or bridge/structure work**) and/or increase noise levels above existing traffic/background levels be conducted *during* the inactive season^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

Yes

36. Are *all* project activities that are **not associated with** habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage , rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

37. Will the project raise the road profile **above the tree canopy**?

No

38. Are the project activities that use percussives (not including tree removal/trimming or bridge/structure work) consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the activities are within 300 feet of the existing road/rail surface, greater than 0.5 miles from a hibernacula, and conducted during the active season within undocumented habitat.

39. Are the project activities that use percussives (not including tree removal/trimming or bridge/structure work) and/or increase noise levels above existing traffic/background levels consistent with a No Effect determination in this key?

Automatically answered

Yes, because the activities are within 300 feet of the existing road/rail surface, greater than 0.5 miles from a hibernacula, and conducted during the inactive season

40. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the Indiana bat's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

41. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the NLEB's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

42. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

Automatically answered

Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected

43. **General AMM 1**

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

44. **Tree Removal AMM 1**

Can *all* phases/aspects of the project (e.g., temporary work areas, alignments) be modified, to the extent practicable, to avoid tree removal^[1] in excess of what is required to implement the project safely?

Note: Tree Removal AMM 1 is a minimization measure, the full implementation of which may not always be practicable. Projects may still be NLAA as long as Tree Removal AMMs 2, 3, and 4 are implemented and LAA as long as Tree Removal AMMs 3, 5, 6, and 7 are implemented.

[1] The word "trees" as used in the AMMs refers to trees that are suitable habitat for each species within their range. See the USFWS' current summer survey guidance for our latest definitions of suitable habitat.

Yes

45. **Tree Removal AMM 3**

Can tree removal be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits)?

Yes

46. **Tree Removal AMM 4**

Can the project avoid cutting down/removal of *all* (1) **documented**^[1] Indiana bat or NLEB roosts^[2] (that are still suitable for roosting), (2) trees **within** 0.25 miles of roosts, and (3) documented foraging habitat any time of year?

[1] The word documented means habitat where bats have actually been captured and/or tracked.

[2] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry triangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

Yes

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

No

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

Yes

3. How many acres^[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0.93

4. Please describe the proposed bridge work:

An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) conveys SR 62 over an Unnamed Tributary (UNT) of Tige Creek within the project limits. It is anticipated that lengthening of the box culvert will be required as part of the project.

5. Please state the timing of all proposed bridge work:

May 2021-December 2022

6. Please enter the date of the bridge assessment:

October 7, 2019

Avoidance And Minimization Measures (AMMs)

This determination key result includes the commitment to implement the following Avoidance and Minimization Measures (AMMs):

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

TREE REMOVAL AMM 1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.

TREE REMOVAL AMM 2

Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and **outside of documented** roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed.

TREE REMOVAL AMM 3

Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on December 02, 2019. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's [February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects](#). The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

APPENDIX D: Bridge/Structure Assessment Form

This form will be completed and submitted to the District Environmental Manager by the Contractor prior to conducting any work below the deck surface either from the underside; from activities above that bore down to the underside; from activities that could impact expansion joints; from deck removal on bridges; or from structure demolition for bridges/structures within 1000 feet of suitable bat habitat.

DOT Project # DES 1601034	Water Body Unnamed water body	Date/Time of Inspection October 7, 2019 9:30am EDT	Within 1,000ft of suitable bat habitat (circle one) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
-------------------------------------	---	---	--

Route	County	Federal Structure ID
SR62	Perry	CV 062-062-92.36

If the bridge/structure is 1,000 feet or more from suitable bat habitat (e.g., an urban or agricultural area without suitable foraging habitat or corridors linking the bridge to suitable foraging habitat), check box and STOP HERE. No assessment required.

Please submit to the U.S. Fish and Wildlife Service.

Areas Inspected (Check all that apply)

Bridges		Culverts/Other Structures		Summary Info (circle all that apply)			
All vertical crevices sealed at the top and 0.5-1.25" wide & ≥4" deep		Crevices, rough surfaces or imperfections in concrete	✓	Human disturbance or traffic under bridge/in culvert or at the structure	High	Low	<input checked="" type="checkbox"/> None
All crevices >12" deep & not sealed		Spaces between walls, ceiling joists		Possible corridors for netting	None/poor	Marginal	<input checked="" type="checkbox"/> Excellent
All guardrails							
All expansion joints							
Spaces between concrete end walls and the bridge deck							

Last Revised May 31, 2017

Vertical surfaces on concrete I-beams							
---------------------------------------	--	--	--	--	--	--	--

Evidence of Bats (Circle all that apply) Presence of one or more indicators is sufficient evidence that bats may be using the structure.

None

Visual (e.g. survey, thermal, emergent etc.)

- Live __number seen
- Dead __number seen

Photo documentation Y/N

Guano

- Odor Y/N
- Photo documentation Y/N

Staining definitively from bats

Photo documentation Y/N

Audible

Assessment Conducted By: <u>Danika Fleck</u> Signature(s): <u>Danika Fleck</u>	<small>Digitally signed by Danika Fleck Date: 2019.10.29 12:27:10 -04'00'</small>
District Environmental Use Only: Date Received by District Environmental Manager: _____	

DOT Bat Assessment Form Instructions

1. Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges, regardless of whether assessments have been conducted in the past.
2. Any bridge/structure suspected of providing habitat for any species of bat will be removed from work schedules until such time that the DOT has coordinated with the USFWS. Additional studies may be undertaken by the DOT to determine what species may be utilizing each structure identified as supporting bats prior to allowing any work to proceed.
3. Any questions should be directed to the District Environmental Manager.

Holly Hume

From: Langley, Sean
Sent: Friday, January 31, 2020 11:22 AM
To: Townsend, Daniel
Cc: Hume, Holly
Subject: FW: Request for IPaC Finding Review - Des 1601034; SR 62 Slide Correction; Perry County - nlaa

Sean Langley
Environmental Biologist
Lochmueller Group

317.385.1356 (mobile)
SLangley@lochgroup.com

This e-mail message is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient(s), please contact the sender by reply e-mail and destroy all copies of the original message. Thank you!

From: Falls, Ryan G <RFalls@indot.IN.gov>
Sent: Friday, January 31, 2020 6:34 AM
To: Langley, Sean <SLangley@lochgroup.com>
Cc: Wright, Kristy <KWright@indot.IN.gov>
Subject: RE: Request for IPaC Finding Review - Des 1601034; SR 62 Slide Correction; Perry County - nlaa

Sean Langley,

In future submittal, please include Mrs. Wright.

The document's finding of May Effect, NLAA-With AMMs for DES 1601034 has been deemed sufficient. It has been verified and submitted to USFWS for their 14 working calendar day review period. The NEPA document submittal may not occur until this review period has ended. The Official Species List, Consistency Letter, and Concurrence Verification Letter are all now immediately available for your use. It is suggested that these documents be downloaded at this time. This concludes the IPaC phase of coordination with the Vincennes environmental office.

Ryan Falls
Capital Program Management-Senior Environmental Manager Supervisor

Indiana Department of Transportation
3650 South US Highway 41
Vincennes, IN 47591

Office: 812-895-7326

Cell: 812-582-1387

Fax: 812-895-7474

Cisco: 14605

Email: rfalls@indot.IN.gov



Categorical Exclusion

Appendix D

**Section 106 of the National Historic
Preservation Act (NHPA)**

Minor Projects PA Project Assessment Form– Category B Projects with Archaeology Work

Date: 3/18/2020

Project Designation Number: 1601034

Route Number: SR 62

Project Description: Slide Correction, approximately 0.88 mile east of SR 37

The proposed project is a slide correction on SR 62, 0.88 mile east of SR 37 at RP 92.4 in Perry County. The slide will be corrected by constructing a 400-foot long buttress fill with 3:1 sideslopes. The new embankment of fill (soil) will be placed at a slope of 3:1 from the edge of each shoulder and continue downward until intercepting the existing ground surface. Excavation is anticipated to extend up to one foot below ground surface for widening of shoulders and the reconstruction of the embedment benching. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) is located within the project limits; it is anticipated that extensions measuring 30 feet and 45 feet will be added upstream and downstream, respectively. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay.

The Maintenance of Traffic will be a detour which will utilize SR 37, I-64, and SR 237. It is anticipated the project will be bundled with 11 other slide correction projects along SR 62, thus access will need to be maintained for local traffic.

This project is anticipated to require approximately 1.4 acres of permanent right-of-way (ROW). Tree clearing is anticipated within the proposed ROW.

Feature crossed (if applicable):

Township: Oil Township

City/County: Perry County

Information reviewed (please check all that apply):

- General project location map USGS map Aerial photograph Interim Report
- Written description of project area General project area photos Soil survey data
- Previously completed historic property reports Previously completed archaeology reports
- Bridge Inspection Information SHAARD SHAARD GIS Streetview Imagery

Other (please specify): Indiana Historic Building, Bridges, and Cemeteries Map (IHBBCM); County GIS data (accessed via <https://perryin.wthgis.com/>); Bridge Inspection Application System (BIAS); project information provided by Lochmueller Group, Inc., dated 2/24/2020 and on file at INDOT-CRO;

Dickerson, John P.

2020 A Phase Ia Archaeological Reconnaissance Survey for a Proposed Slide Correction along SR 62 approximately 0.88 Mile East of SR 37 in Perry County, Indiana (INDOT Des. No. 1601034). Contract Publication Series 19-791, Cultural Resource Analysts, Evansville.

Last revised 9-23-08

Page 1 of 5

Results of the Records Review for Above-Ground Resources:

With regard to above-ground resources, an INDOT-Cultural Resources Office (CRO) historian, who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61, first performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Perry County. No listed resources are present within 0.25 mile of the project area, a distance that would serve as an adequate area of potential effects (APE) given the scope of the project and the surrounding terrain.

The *Perry County Interim Report* (1992; Oil Township) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. The National Register & IHSSI information is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The SHAARD information was checked against the Interim Report hard copy maps. Two (2) IHSSI sites are recorded within 0.25 mile of the project: IHSSI #123-062-00011 (Farm; SR 62; c. 1890; "contributing") and IHSSI #123-062-00010 (Farm (James Kelly Land); SR 62; c. 1890; "contributing").

According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually National Register eligible, although they would contribute to a historic district. If they retain material integrity, properties rated "notable" might possess the necessary level of significance after further research. Properties rated "outstanding" usually possess the necessary level of significance to be considered National Register eligible, if they retain material integrity. Historic districts identified in the IHSSI are usually considered eligible for the National Register.

Land surrounding the project area is rural; the typology is rolling. In addition to the two (2) IHSSI-surveyed properties, three (3) above-ground properties are present within 0.25 mile of the project area. One property consists of a residential house with outbuildings and the other two (2) properties consist of agriculture-related outbuildings. The two (2) properties with agriculture-related outbuildings will not be 50 years or older by the time of project letting in 2020 according to property card records. The residential property was constructed in the mid-twentieth century. Based on the available online street-view imagery and aerial photography, there is no evidence that this property possesses the cultural significance to be considered potentially eligible to the National Register for the purposes of this determination.

The subject structure (CV 062-062-92.36) is a concrete box culvert with a corrugated metal pipe extension; the construction date is unknown. Based on an examination of BIAS reports, the structure exhibits no wood, stone, or brick structures or parts therein. In addition, there is no evidence to suggest that it possesses historical or engineering significance.

Based on the available information, as summarized above, no above-ground concerns exist as long as the project scope does not change.

Archaeology Report Author/Date:

John P. Dickerson/March 4, 2020

Summary of Archaeology Investigation Results:

An archaeological records check and Phase Ia reconnaissance survey of the project area were conducted by Cultural Resource Analysts (CRA) (Dickerson 2020). The records check found that the project area had not been previously examined for archaeological resources and that no previously recorded sites have been identified within or adjacent to it. A 2.6-acre survey area encompassing the proposed 1.3-acre project area was examined through the excavation of 20 shovel probes and visual inspection of disturbed areas. No evidence for archaeological deposits was identified. The report was reviewed by INDOT

Cultural Resources personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. It is our opinion that the report is acceptable, and we concur with the evaluations and recommendations made by CRA (Dickerson 2020). Therefore, there are no archaeological concerns.

Does the project appear to fall under the Minor Projects PA? yes no

If yes, please specify category and number (applicable conditions are highlighted):

A-4. Roadway work associated with surface replacement, reconstruction, rehabilitation, or resurfacing projects, including overlays, shoulder treatments, pavement repair, seal coating, pavement grinding, and pavement marking within previously disturbed soils where replacement, repair, or installation of curbs, curb ramps or sidewalks will not be required; *AND*

B-4. Installation of new safety appurtenances, including but not limited to, guardrails, barriers, glare screens, and crash attenuators, under the following conditions [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

Condition A (Archaeological Resources)

One of the two conditions listed below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*

B-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

Condition A (Archaeological Resources)

One of the two conditions listed below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

One of the conditions below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (*Condition a, Condition b, or Condition c must be satisfied*):
 - a. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
 - b. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
 - c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met (*BOTH Condition 1 AND Condition 2 must be met*):
 1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
 2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.
- ii. Work involves the installation of a new culvert and other drainage structures AND/OR there may be impacts to unusual features, including historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions (*BOTH Condition a and Condition b must be satisfied*):
 - a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
 - b. The subject structure exhibits one of the characteristics described below (*Condition 1, Condition 2 or Condition 3 must be satisfied*):
 1. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
 2. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
 3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

B-10. Slide corrections, slope repairs, and other erosion control measures, in undisturbed soils under the conditions listed below [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

Condition A (Archaeological Resources)

An archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register listed or potentially National Register eligible archaeological resources, then full Section 106 review will be required. Copies of any reports will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

If no, please explain:

Additional comments: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, construction in the immediate area of the find will be stopped and the INDOT Cultural Resources Office and the Division of Historic Preservation and Archaeology will be notified immediately.

INDOT Cultural Resources staff reviewer(s): Kelyn Alexander and Matt Coon

****Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*



INDIANA ARCHAEOLOGICAL SHORT REPORT

State Form 54566 (1-11)

INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY

402 West Washington Street, Room W274
Indianapolis, Indiana 46204-2739
Telephone Number: (317) 232-1646
Fax Number: (317) 232-0693
E-mail: dpha@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology.

Author:

Date (month, day, year):

Project Title:

PROJECT OVERVIEW

Project Description:

INDOT Designation Number/ Contract Number: Project Number:

DHPA Number: Approved DHPA Plan Number:

Prepared For:

Contact Person:

Address:

City: State: ZIP Code:

Telephone Number: Email Address:

Principal Investigator:

Signature:

Company/Institution:

Address:

City: State: ZIP Code:

Telephone Number: Email Address:

Describe Methods: Shovel tests were excavated along relatively flat ground on the north and south sides of SR 62 (see Figure 3). In all cases, the shovel tests measured no less than 30.0 cm (11.8 in) in diameter and extended well into the subsoil. All fill removed was screened through 0.64 cm (0.25 in) mesh, and the sidewalls and bottoms were examined for cultural materials and features. All shovel tests were excavated into culturally sterile horizons.

Paved areas and areas of obvious disturbance (e.g., roadside ditches and embankments) were subjected to a visual examination only to confirm disturbances (see Figures 4–6). Sideslopes also were only visually inspected.

Attach photographs documenting disturbances below

Describe Disturbances: The majority of the survey area is situated in the existing SR 62 ROW. Disturbances observed included the prior construction of roadside embankments along the north and south sides of SR 62 (see Figures 4–6).

Comments: No further comment.

Results

- Archaeological records check has determined that the project area does not have the potential to contain archaeological resources.
- Archaeological records check has determined that the project area has the potential to contain archaeological resources.
- Phase Ia reconnaissance has located no archaeological resources in the project area.
- Phase Ia reconnaissance has identified landforms conducive to buried archaeological deposits.

Actual Area Surveyed hectares: acres:

Comments: Shovel tests excavated along the north side of SR 62 revealed soil profiles that consisted of a brown (10YR 4/3) silt loam Ap-horizon that extended from the ground surface to a depth of 10 cm (4 in) below ground surface (bgs). This was underlain by a yellowish brown (10YR 5/6) silty clay loam that extended to a depth of at least 35 cm (14 in) bgs. Soils observed in shovel tests excavated in this portion of the survey area generally conformed to the range of characteristics attributed to the Ebal series within the Ebal-Deuchars-Kitterman complex.

A single transect was excavated at the base of the sloping and disturbed ROW on the north and south sides of SR 62, approximately 24 m (81 ft) from the road's centerline. Shovel tests excavated south of SR 62 revealed soil profiles that consisted of a brown (10YR 4/3) silty clay loam Ap-horizon that contained common light gray (10YR 7/1) mottles and a few angular gravels that extended from the ground surface to a depth of 13 cm (5 in) bgs. This was underlain by a gray (10YR 6/1) clay loam Bt1-horizon that contained common medium-sized iron/manganese inclusions that extended to a depth of at least 35 cm (14 in) bgs. Soils observed in the southern portion of the survey area did not conform to the range of characteristics attributed to the Ebal-Deuchars-Kitterman complex or the Adyeville-Tipsaw-Ebal complex because they appear to be more poorly drained than any of the individual series in the complexes.

Recommendation

- The archaeological records check has determined that the project area has the potential to contain archaeological resources and a Phase Ia archaeological reconnaissance is recommended.
- The archaeological records check has determined that the project area does not have the potential to contain archaeological resources and no further work is recommended before the project is allowed to proceed.
- The Phase Ia archaeological reconnaissance has located no archaeological sites within the project area and it is recommended that the project be allowed to proceed as planned.
- The Phase Ia archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits. It is recommended that Phase Ic archaeological subsurface reconnaissance be conducted before the project is allowed to proceed.

The Phase Ia archaeological reconnaissance has determined that the project area is within 100 feet of a cemetery and a Cemetery Development Plan is required per IC-14-21-1-26.5.

Cemetery Name:

Other Recommendations/Commitments:

Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.

Attachments

- Figure showing project location within Indiana.
- USGS topographic map showing the project area (*1:24,000 scale*).
- Aerial photograph showing the project area, land use and survey methods.
- Photographs of the project area.
- Project plans (*if available*)

Other Attachments:

References Cited:

Comments:

Curation

Curation Facility for Project Documentation:

Blad, Hannah

From: Alexander, Kelyn <KAlexander3@indot.IN.gov>
Sent: Wednesday, March 18, 2020 10:25 AM
To: Blad, Hannah
Cc: Kumar, Anuradha; Coon, Matthew; Branigin, Susan; Miller, Shaun (INDOT); Costa, Chad; Quigg, Gary; Will, Nick; Townsend, Daniel; amartin; Moon, Kyanna; Falls, Ryan G
Subject: RE: SR 62 Slide Correction Project - Des. No. 1601034 - MPPA determination form
Attachments: Minor Projects PA determination form_B-4_B-9_B-10_1601034.pdf

Hannah,

Thank you for the submittal of this project information for our review. We've determined that the project falls under Categories B-4, B-9, and B-10 of the Minor Projects PA, thus concluding the Section 106 process. The determination form is attached for your use in the CE document.

The revised archaeological short report has been reviewed and approved by INDOT-CRO. Please forward one hard copy of the report to DHPA, indicating in the cover letter that the project qualified as a Minor Project and therefore the report is for their records only and no formal review is required under Section 106. In addition, we ask that a copy of the DHPA submittal letter be sent to INDOT-CRO c/o Matt Coon (mcoon@indot.in.gov) during the time of submission and that the archaeological report be posted to IN SCOPE.

Please keep in mind that if the scope of the project or project limits should change, our office will need to re-examine the information to determine whether the MPPA still applies. Please don't hesitate to contact us should you have any questions or need additional information.

Best regards,

Kelyn Alexander

Historian

Cultural Resources Office

Environmental Services

100 N. Senate Ave., Room N642

Indianapolis, IN 46204

Office: (317) 234-4147

Email: kalexander3@indot.in.gov

**** Historic Property Report (HPR) guidelines can be found [here](#)**

Categorical Exclusion

Appendix E

**Red Flag Investigation
& Hazardous Materials**



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204-2216 (317) 232-5348 FAX: (317) 233-4929

Eric Holcomb, Governor
Joe McGuinness, Commissioner

Date: August 15, 2018

To: Site Assessment and Management Unit
Environmental Services
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

Note: The RFI was prepared for Des Nos. 1601034, 1601035, and 1601036. This CE document only pertains to Des No. 1601034. The CE document for Des Nos. 1601035 and 1601036 will be prepared separately.

From: Matthew Brendel
Lochmueller Group, Inc.
6200 Vogel Road
Evansville, IN 47715
mbrendel@lochgroup.com

Note: Due to the age of the RFI document, the RFI report was re-examined on June 18, 2020. No new information was identified.

Re: RED FLAG INVESTIGATION
DES #1601034, 1601035 and 1601036
SR 62 Multiple Slide Corrections
Perry and Crawford Counties, Indiana

PROJECT DESCRIPTION

Brief Description of Project:

The proposed projects will be designed in accordance with the Indiana Design Manual (IDM) Chapter 55 – Geometric Design of Existing Non-Freeway (3R) standards and in accordance with the Geotechnical Report. Additional work outside the slide correction length may include guardrail construction, roadside ditch grading, and pavement construction to correct any profile deficiencies due to the slide.

- Des No. 1601034: The slide correction project is located along SR 62 approximately 0.88 miles east of SR 37 in Perry County at RP 92.4. Alternatives being reviewed for the 120' long slide correction include constructing a buttress fill, a reinforced soil slope, and reconstructing the slide area with rock fill. An existing 4'x4' box cross culvert (CV 062-062-92.36) is located within the project limits, and it is anticipated that lengthening of the box will be required as part of the project.
- Des No. 1601035: The slide correction project is located along SR 62 approximately 1.18 miles east of SR 37 in Perry and Crawford County at RP 92.7. Alternatives being reviewed for the 410' slide correction include reconstructing the slide area with rock fill, a soil nailed wall, and drilled pier shafts with tiebacks.
- Des No. 1601036: The slide correction project is located along SR 62 approximately 2.78 miles east of SR 37 in Crawford County at RP 94.3. Alternatives being reviewed for the 430' long slide correction include the construction of a buttress fill, a soldier pile wall, a soil nailed wall, a MSE wall, a reinforced soil slope, and the reconstruction of the slide area with rock fill.

Bridge and/or Culvert Project: Yes No Structure # CV 062-062-92.36

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

www.in.gov/dot/

An Equal Opportunity Employer

Proposed right of way: Temporary # Acres _____ Permanent # Acres * *R/W acquisition is anticipated due to no existing R/W grants being found along SR 62, however the amount of permanent proposed R/W is unknown at this time.

Type of excavation:

- Des No. 1601034: Up to 25’ for construction of the slide correction and up to 20’ if the culvert must be removed and replaced.
- Des No. 1601035: Up to 25’ for construction of the slide correction
- Des No. 1601035: Up to 25’ for construction of the slide correction
- Minor excavation associated with guardrail construction, roadside ditch grading, and pavement construction

Maintenance of traffic: Full road closure and detour

Work in waterway: Yes No Above ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: Preferred alternative selection and design is not yet complete.

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	*1	Recreational Facilities	1
Airports ¹	N/A	Pipelines	N/A
Cemeteries	1	Railroads	N/A
Hospitals	N/A	Trails	N/A
Schools	N/A	Managed Lands	1

¹In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) is required.

Explanation:

Religious Facilities*: One (1) unmapped religious facility is located within the 0.5 mile search radii, as shown on the USGS Topo Map. The Holy Cross Catholic Church is located 0.40 mile west of the Des No. 1601034 project area. No impact is expected.

Cemeteries: One (1) cemetery is located within the 0.5 mile search radii. The cemetery at Holy Cross Catholic Church is located 0.40 mile west of the Des No. 1601034 project area. No impact is expected.

Recreational Facilities: One (1) recreational facility is located within the 0.5 mile search radii. The St. Croix Gun Club is located 0.45 mile west of the Des No. 1601034 project area. No impact is expected.

Managed Lands: One (1) managed land polygon, associated with Hoosier National Forest, is located within both of the 0.5 mile radii. The project area associated with both Des No’s 1601035 and 1601036 are mapped within the Hoosier National Forest. Coordination with the US Forest Service will occur.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	2	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	9
Canal Structures – Historic	N/A	Lakes	6
NPS NRI Listed	N/A	Floodplain - DFIRM	3
NWI-Lines	5	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	1	Sinkhole Areas	N/A
Rivers and Streams	13	Sinking-Stream Basins	N/A

Explanation:

NWI – Points: Two (2) NWI points are located within the 0.5 mile search radii. The nearest NWI point is located 0.12 mile northeast of the Des No. 1601036 project area. No impact is expected.

NWI – Lines: Five (5) NWI line segments are located within the 0.5 mile search radii. The nearest NWI line segment is located adjacent to the Des No. 1601036 project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes (Impaired): One (1) 303d listed stream segment is located within the 0.5 mile search radii. This tributary to Tige Creek is located 0.10 mile northwest of the Des No. 1601034 project area. The tributary to Tige Creek is listed for Impaired Biotic Communities (IBC). No impact is expected.

Rivers and Streams: Thirteen (13) stream segments are located within the 0.5 mile search radii. The nearest stream segment, Potts Creek, is located adjacent to the Des No. 1601036 project area. Due to the proximity of culvert CV 062-062-92.36, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the Des No. 1601034 project area. A Waters of the US Report will be prepared and coordination with INDOT Ecology and Waterway Permitting will occur.

NWI – Wetlands: Nine (9) NWI wetlands are located within the 0.5 mile search radii. The nearest NWI wetland is located 0.03 mile southwest of the Des No. 1601036 project area. No impact is expected.

Lakes: Six (6) lakes are located within the 0.5 mile search radii. The nearest lake polygon is located 0.09 mile west of the Des No. 1601036 project area. No impact is expected.

Floodplain – DFIRM: Three (3) floodplain polygons are located within the 0.5 mile search radii. The Des No. 1601036 project area is located within one of the floodplain polygons. Coordination with INDOT ES Ecology and Waterway Permitting will occur.

URBANIZED AREA BOUNDARY SUMMARY

Explanation: The project areas are not mapped within an Urbanized Area Boundary.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	8	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: Eight (8) petroleum well points are located within the 0.5 mile search radii. The nearest petroleum well point is located 0.28 mile southwest of the Des No. 1601034 project area. No impact is expected.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	N/A	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	2
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	1
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

Explanation:

Brownfields: Two (2) brownfield points are located within the 0.5 mile search radii. However, according the IDEM Virtual File Cabinet (VFC), brownfield #4070465 (Agency ID No. 61099) (formerly a 1 ½ story building constructed in 1928, last used as a gas station and grocery store through the late 1980’s called “The Trading Post”) is actually located 0.20 mile west of the mapped point location and is therefore actually located outside of the 0.5 mile search radii at the street address of 12030 SR 62. Additionally, brownfield #4090408 (Agency ID No. 59086) (little information available in VFC, but reported as a possible old gas station with no listed underground storage tanks, no reported releases, and was determined to be “relatively low risk”) is actually located 0.07 mile west of the mapped point location at the street address of 12155 SR 62. No impact is expected.

NPDES Pipe Locations: One (1) NPDES pipe location is mapped within the 0.5 mile search radii. However, the pipe outfall empties into Tige Creek, just east of the J.H. Rudolph – St. Croix facility [AI ID #15432], which is 0.32 mile west of the mapped pipe location and is located outside of the 0.5 mile search radii. This was verified through documents in the IDEM VFC. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Crawford and Perry County listings of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of endangered species. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project areas Des No's. 1601035 and 1601036. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area Des No. 1601034. The project is located in a rural area surrounded by farm fields and forests. The October 1, 2013, inspection report for culvert CV 062-062-92.36 contains no information about whether bats are present or absent in the culvert. Additional investigation to confirm the presence or absence of bats in the culvert will be necessary. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

An inquiry using the USFWS Information for Planning and Consulting (IPaC) website did not indicate the presence of the federally endangered species, the Rusty Patched Bumblebee, in or within 0.5 mile of the project area. No impact is expected.

RECOMMENDATIONS SECTION

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE: One (1) managed land, Hoosier National Forest, is located within to the Des No's. 1601035 and 1601036 project areas. Coordination with the US Forest Service is recommended.

WATER RESOURCES: The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ES Ecology and Waterway Permitting:

- One (1) NWI line segment is located adjacent to the Des No. 1601036 project area.
- One (1) stream segment, Potts Creek, is located adjacent to the Des No. 1601036 project area.
- One (1) floodplain polygon is located within to the Des No. 1601036 project area.
- Proximity of culvert CV 062-062-92.36 within the Des No. 1601034 project area.

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

ECOLOGICAL INFORMATION:

- Coordination with USFWS and IDNR will occur.
- Additional investigation for DES No. 1601034 to confirm the presence or absence of bats in culvert CV 062-062-92.36 will be necessary.
- The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

August 15, 2018

INDOT Environmental Services concurrence: Nicole Fokey-Breting (Signature)

Prepared by:

Matthew J. Brendel

Matthew Brendel
Environmental Technician
Lochmueller Group, Inc.

Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

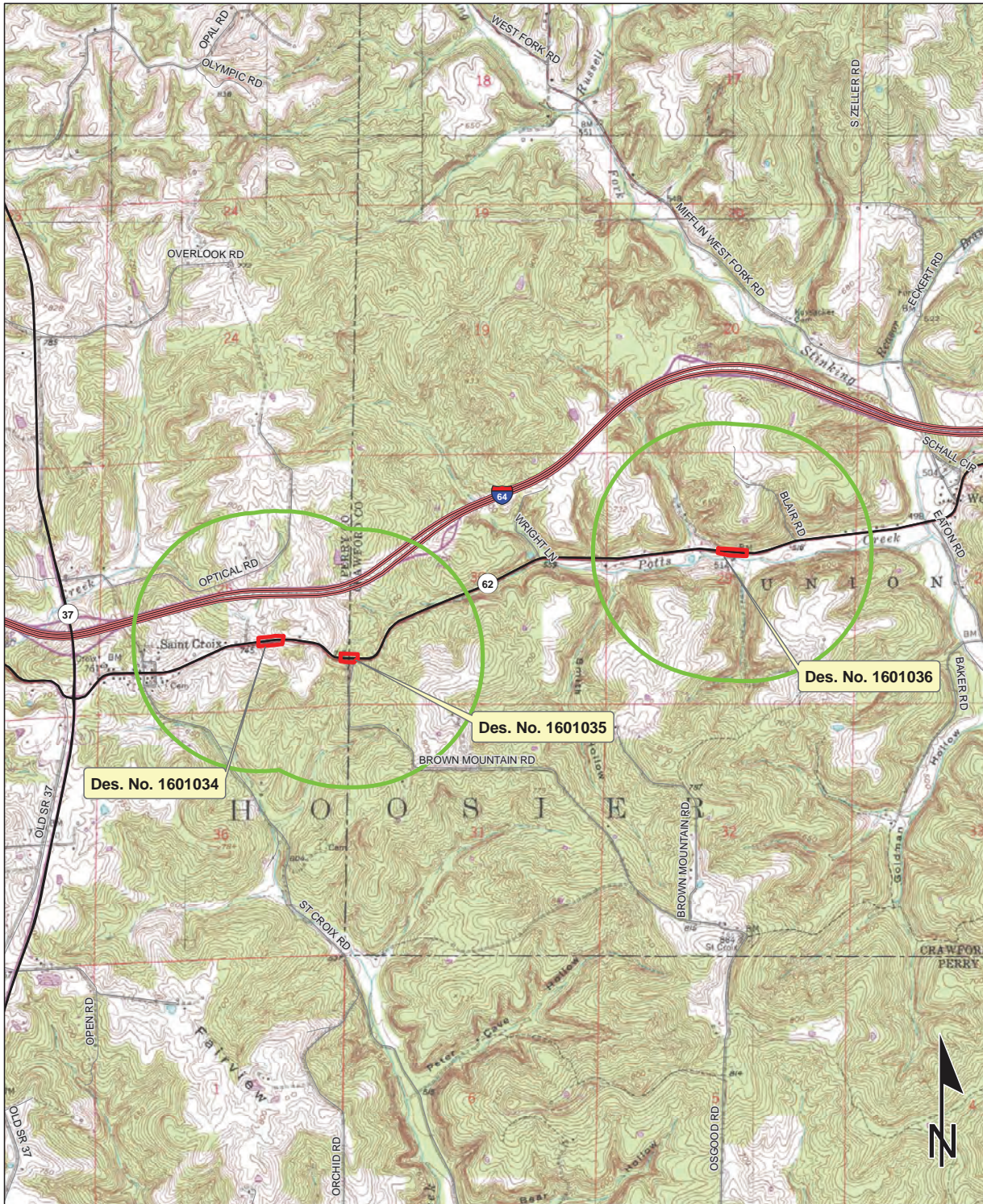
WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: YES

HAZMAT CONCERNS: YES

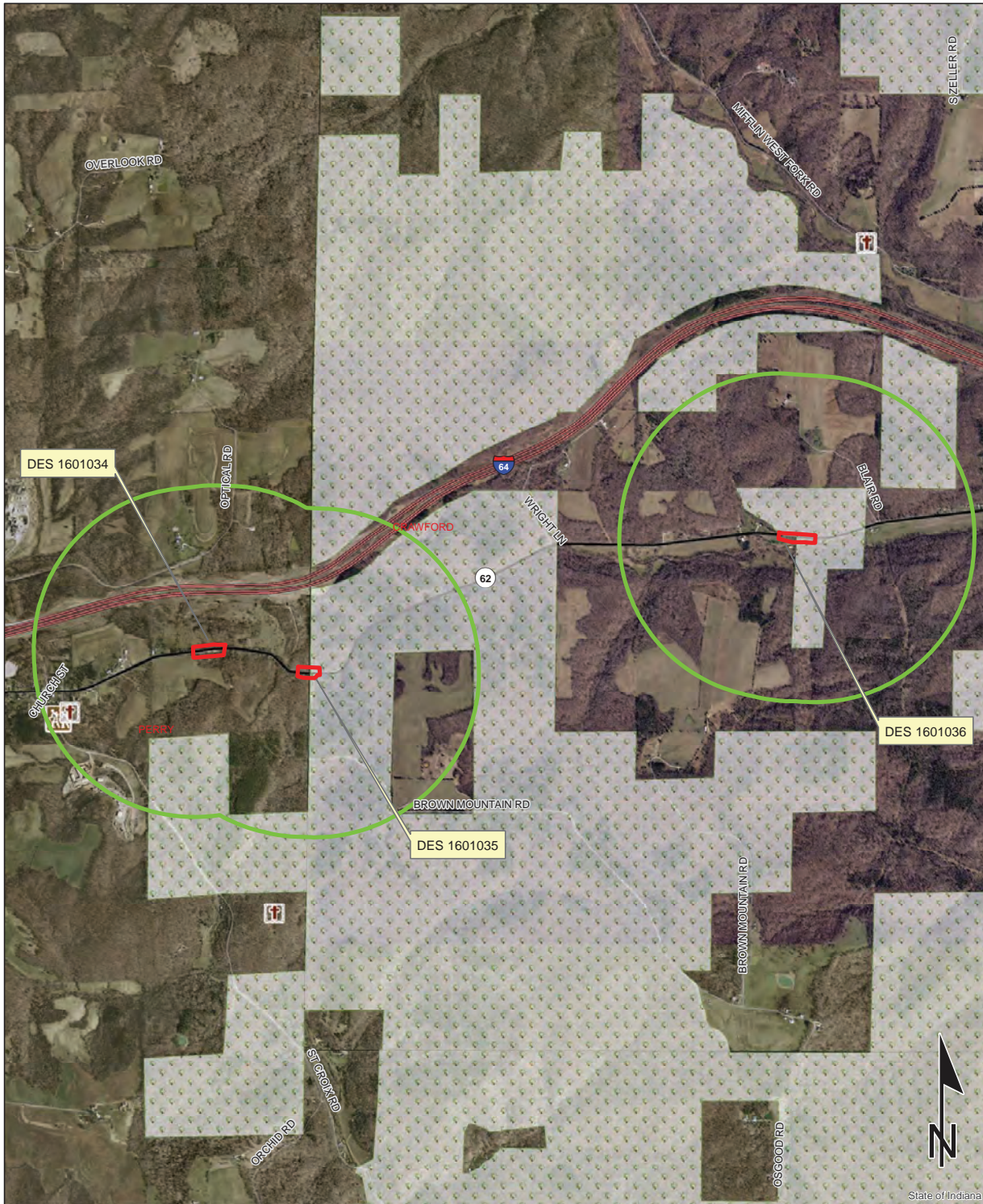
Red Flag Investigation - Site Location
 SR 62 Slide Corrections
 Des. No. 1601034, 1601035 & 1601036
 Crawford & Perry Counties, Indiana



Sources: 0.5 0.25 0 0.5 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

BRANCHVILLE QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure
 SR 62 Slide Corrections
 Des. No. 1601034, 1601035 & 1601036
 Crawford & Perry Counties, Indiana



Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

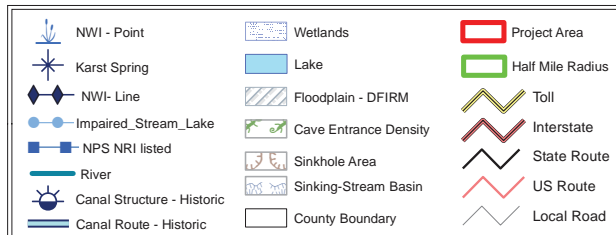
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources
 SR 62 Slide Corrections
 Des. No. 1601034, 1601035 & 1601036
 Crawford & Perry Counties, Indiana

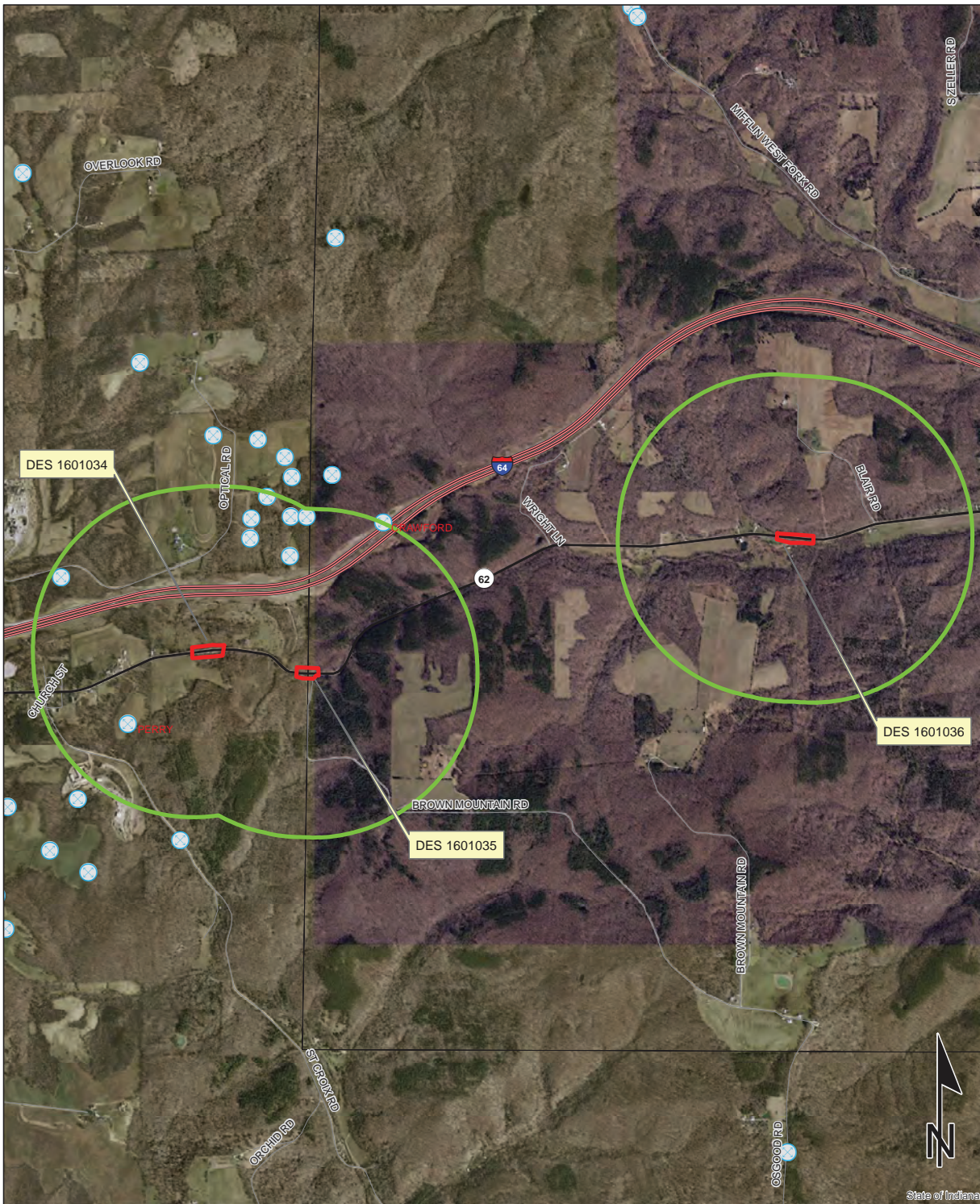


Sources:
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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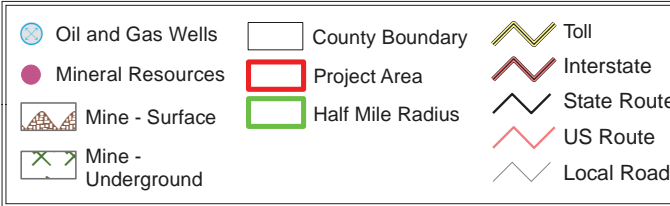


Red Flag Investigation - Mining/Mineral Exploration
 SR 62 Slide Corrections
 Des. No. 1601034, 1601035 & 1601036
 Crawford & Perry Counties, Indiana

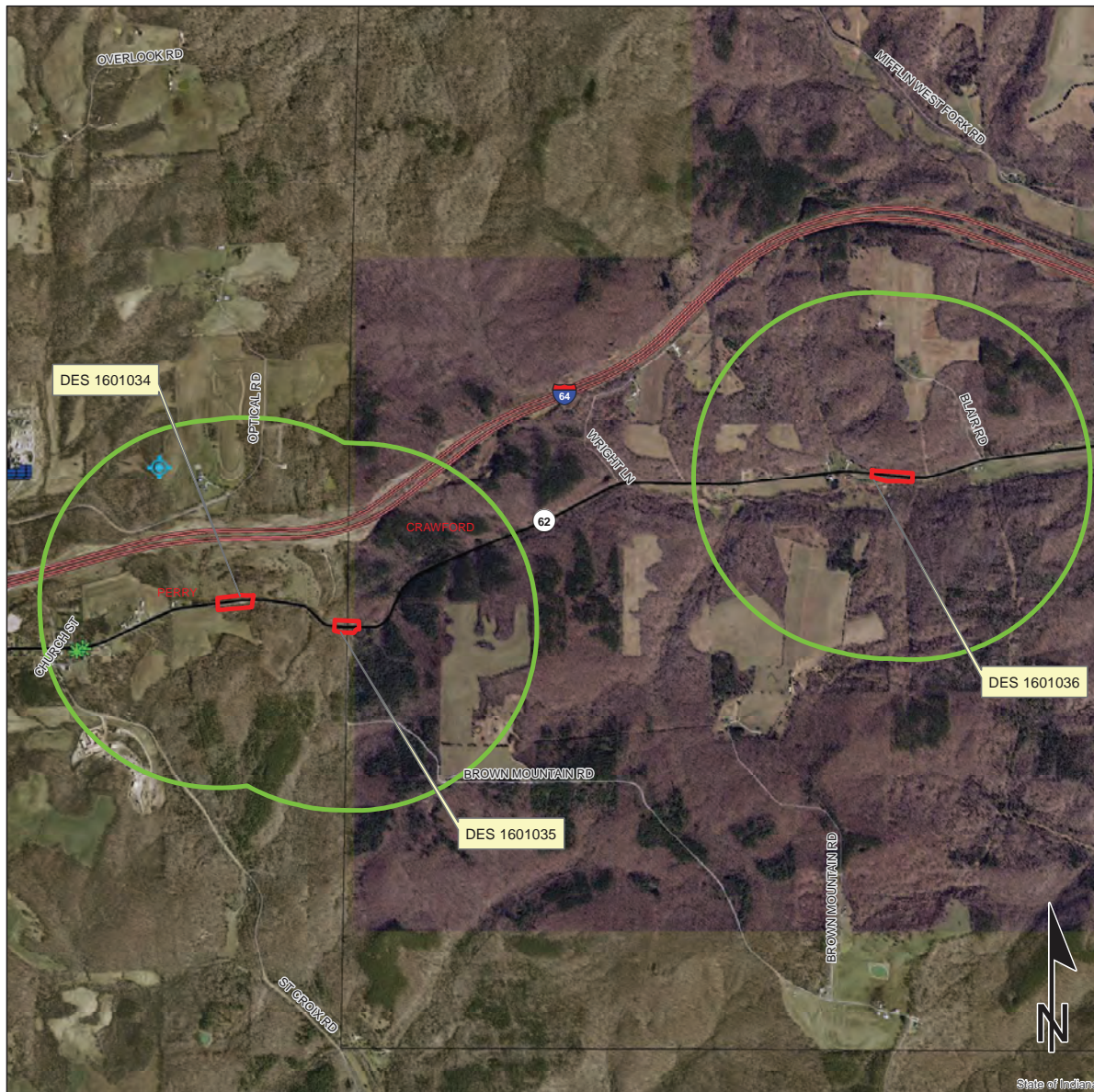


Sources: 0.35 0.175 0 0.35 Miles
Non Orthophotography
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Red Flag Investigation - Hazardous Material Concerns
 SR 62 Slide Corrections
 Des. No. 1601034, 1601035 & 1601036
 Crawford & Perry Counties, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				



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Des No. 1601034

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Indiana County Endangered, Threatened and Rare Species List

County: **Crawford**

Species Name	Common Name	FED	STATE	GRANK	SRANK
Platyhelminthes (Flatworms)					
Sphalloplana weingartneri	Weingartner's Cave Flatworm		WL	G4	S3
Diplopoda					
Pseudotremia indiana	Blue River Cave Milliped		WL	G4	S4
Pseudotremia salisae	Salisa's Cave Milliped		SE	G1G2	S1
Crustacean: Malacostraca					
Caecidotea jordanii	Jordan's groundwater isopod		SE	G2G3	S1
Crangonyx packardii	Packard's Cave Amphipod		WL	G4	S3
Miktoniscus barri	Barr's Terrestrial Isopod		WL	G2G4	SNR
Orconectes inermis inermis	A Troglotic Crayfish		WL	G5T4	S3
Crustacean: Copepoda					
Cauloxenus stygius	Northern Cavefish Commensal Copepod		SE	G1G2	S1
Diacyclops jeanneli	Jeannel's Cave Copepod		ST	G3G4	S2
Diacyclops yeatmani	Yeatman's groundwater isopod		SE	G2G3	S1
Megacyclops donaldsoni	Donaldson's Cave Copepod		SE	G3G4	S1
Crustacean: Ostracoda					
Pseudocandona jeanneli	Jeannel's Cave Ostracod		SE	G2	S1
Pseudocandona marengoensis	Marengo Cave Ostracod		SE	G1G2	S1
Sagittocythere barri	Barr's Commensal Cave Ostracod		WL	G5	S3S4
Mollusk: Bivalvia (Mussels)					
Epioblasma triquetra	Snuffbox	LE	SE	G3	S1
Fusconaia subrotunda	Longsolid	C	SE	G3	SX
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Lampsilis ovata	Pocketbook			G5	S2
Ligumia recta	Black Sandshell			G4G5	S2
Obovaria subrotunda	Round Hickorynut	C	SE	G4	S1
Pleurobema clava	Clubshell	LE	SE	G1G2	S1
Pleurobema cordatum	Ohio Pigtoe		SSC	G4	S2
Pleurobema pyramidatum	Pyramid Pigtoe		SE	G2G3	SX
Ptychobranchus fasciolaris	Kidneyshell		SSC	G4G5	S2
Simpsonaias ambigua	Salamander Mussel	C	SSC	G3	S2
Villosa lienosa	Little Spectaclecase		SSC	G5	S3
Mollusk: Gastropoda					
Antroselatus spiralis	Shaggy Cave Snail		SR	G3	S3
Carychium riparium	Floodplain Thorn			G2	SNR
Fontigens cryptica	Hidden Springs Snail		SE	G1	S1
Ellipluran: Collembola					
Arrhopalites ater	Black Medusa Cave Springtail		ST	G2	S2
Arrhopalites lewisii	Lewis' Cave Springtail		ST	GNR	S2

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Indiana County Endangered, Threatened and Rare Species List

County: Crawford

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Hypogastrura lucifuga	Wyandotte Cave Springtail		SE	GNR	S1
Onychiurus casus	Fallen Springtail		WL	GNR	S4
Onychiurus reluctus	A Springtail		WL	GNR	S4
Onychiurus subtenuis	Slender Springtail		WL	GNR	SNR
Pseudosinella fonsa	Fountain Cave Springtail		ST	G3G4	S2
Sinella alata	Springtail		WL	G5	S4
Sinella cavernarum	A Springtail		WL	G5	S3
Insect: Coleoptera (Beetles)					
Aleochara lucifuga	Rove beetle		WL	GNR	S4
Aloconota insecta	A rove beetle			GNR	S2
Pseudanopthalmus eremita	Cave Beetle		SE	G1G2	S1
Pseudanopthalmus stricticollis	Marengo Cave Ground Beetle		WL	G4	S3
Pseudanopthalmus tenuis	Cave Beetle		WL	G4	S4
Pseudanopthalmus youngi	Young's cave ground beetle		SR	G3G4	S2
Trimiomelba dubia	Ant beetle			GNR	S2
Insect: Homoptera					
Bruchomorpha extensa	The Long-nosed Elephant Hopper		SR	GNR	S2S3
Chlorotettix vacuna	The Vacant Chlorotettix		SR	GNR	S1S2
Flexamia reflexus	Indiangrass Flexamia		ST	GNR	S2S3
Polyamia dilata	The Short-winged Panic Grass Leafhopper		SE	GNR	S1
Polyamia herbida	The Prairie Panic Grass Leafhopper		ST	GNR	S1S3
Insect: Lepidoptera (Butterflies & Moths)					
Amblyscirtes hegon	Salt-and-pepper Skipper		SR	G5	S2
Amblyscirtes vialis	Common Roadside-skipper		SR	G5	S3
Artogeia virginensis	West Virginia White		SR	G3?	S3
Atrytonopsis hianna	Dusted Skipper		ST	G4G5	S1S2
Calephelis muticum	Swamp Metalmark		ST	G3	S2
Calycopis cecrops	Red-banded Hairstreak		SR	G5	S2S3
Catocala flebilis	The Black-dashed Underwing Moth		SR	G5	S1S3
Cyloopsis gemma	Gemmed Satyr		SR	G4G5	S2
Grammia figurata	The Figured Grammia		SR	G5	S2S3
Grammia phyllira	The Sand Barrens Grammia		SR	G4	S2S3
Hermeuptychia sosybius	Carolina Satyr		SR	G5	S1S2
Herpetogramma thestealis			SR	GNR	S2S3
Hesperia leonardus	Leonard's Skipper		SR	G5	S2
Holomelina opella	The Smokey Holomelina		SR	G5	S2S3
Hyperaeschra georgica	A Prominent Moth			G5	S2

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Indiana County Endangered, Threatened and Rare Species List

County: Crawford

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Lesmone detrahens	A Moth		SR	G5	S2
Leucania inermis	A Moth		SR	G5	S2S3
Paectes abrostolella	The Barrens Paectes Moth		SR	G4	S2S3
Pagara simplex	A Moth		SR	G5	S2S3
Pangrapta decoralis	The Multicolored Huckleberry Moth		ST	G5	S2
Pyrausta laticlavia	The Southern Purple Mint Moth		SR	GNR	S1S2
Schinia sanguinea	Bleeding Flower Moth			G4	S2S3
Spilosoma latipennis	The Red-legged Tussock Moth		SR	G4	S2S3
Tampa dimediatella	Red-striped Panic Grass Moth		ST	GNR	S2S3
Thorybes pylades	Northern Cloudywing		SR	G5	S2S3
Insect: Orthoptera					
Melanoplus tepidus	The Fearful Barrens Locust		SR	GU	S1S3
Arachnida					
Calymmaria cavicola	Cave Funnel-web Spider			GNR	S1
Cicurina arcuata	A Funnel-web Weaver			G5	S1
Dolomedes scriptus	Lined Nursery Web Spider			G5	S1?
Hesperochnes mirabilis	Southeastern Cave Pseudoscorpion		WL	G5	S4
Kleptochthonius packardi	Packard's Cave Pseudoscorpion		SE	G2G3	S2
Nesticus carteri	Carter's Cave Spider			GNR	S1
Veigaia bakeri	Baker's Cave Mite			G1	S1
Veigaia wyandottensis	Wyandotte Cave Mite		SE	G1	S1
Fish					
Amblyopsis hoosieri	Hoosier cavefish	C	SE	G2	S1
Esox masquinongy	Ohio River Muskellunge		SSC	G5	S1
Etheostoma maculatum	Spotted Darter		SSC	G2G3	S2S3
Etheostoma variatum	Variegated Darter		SE	G5	S1
Notropis ariommus	Popeye Shiner			G3	SX
Amphibian					
Aneides aeneus	Green Salamander	C	SE	G3G4	S1
Cryptobranchus alleganiensis alleganiensis	Eastern Hellbender	C	SE	G3G4T3T4	S1
Reptile					
Terrapene carolina carolina	Eastern Box Turtle		SSC	G5T5	S3
Bird					
Accipiter striatus	Sharp-shinned Hawk		SSC	G5	S2B
Aimophila aestivalis	Bachman's Sparrow			G3	SXB
Ammodramus henslowii	Henslow's Sparrow		SE	G4	S3B
Buteo lineatus	Red-shouldered Hawk		SSC	G5	S3
Buteo platypterus	Broad-winged Hawk		SSC	G5	S3B

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Indiana County Endangered, Threatened and Rare Species List

County: Crawford

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Coragyps atratus	Black Vulture			G5	S1N,S2B
Haliaeetus leucocephalus	Bald Eagle		SSC	G5	S2
Helmitheros vermivorus	Worm-eating Warbler		SSC	G5	S3B
Mniotilta varia	Black-and-white Warbler		SSC	G5	S1S2B
Pandion haliaetus	Osprey		SE	G5	S1B
Setophaga cerulea	Cerulean Warbler		SE	G4	S3B
Wilsonia citrina	Hooded Warbler		SSC	G5	S3B
Mammal					
Myotis austroriparius	Southeastern Bat		SSC	G4	SH
Myotis grisescens	Gray Bat	LE	SE	G4	S1
Myotis leibii	Eastern Small-footed Myotis		SSC	G4	SU
Myotis lucifugus	Little Brown Bat	C	SSC	G3	S2
Myotis septentrionalis	Northern Long Eared Bat	LT	SSC	G1G2	S2S3
Myotis sodalis	Indiana Bat or Social Myotis	LE	SE	G2	S1
Neotoma magister	Allegheny Woodrat		SE	G3G4	S2
Nycticeius humeralis	Evening Bat		SE	G5	S1
Perimyotis subflavus	Tricolored Bat		SSC	G2G3	S2S3
Sorex hoyi	Pygmy Shrew		SSC	G5	S2
Vascular Plant					
Acalypha deamii	Mercury		SR	G4?	S2
Asplenium bradleyi	Bradley's Spleenwort		SE	G4	S1
Asplenium montanum	Mountain Spleenwort		SE	G5	S1
Asplenium ruta-muraria	Wallrue Spleenwort		SR	G5	S2
Bacopa rotundifolia	Roundleaf Water-hyssop		ST	G5	S1
Baptisia australis	Wild False Indigo		SR	G5	S2
Calamagrostis porteri ssp. porteri	Porter's reedgrass		SE	G4T4	S1
Carex eburnea	Ebony Sedge		SR	G5	S2
Carex pedunculata	Longstalk Sedge		SR	G5	S2
Castanea dentata	American Chestnut		WL	G4	S3
Chamaelirium luteum	Devil's-bit		SE	G5	S1
Cheilanthes lanosa	Hairy Lipfern		SR	G5	S2
Cirsium carolinianum	Carolina Thistle		SR	G5	S2
Cypripedium parviflorum var. pubescens	Large Yellow Lady's-slipper		WL	G5T5	S3
Dodecatheon frenchii	French's Shootingstar		SR	G3	S2
Eupatorium incarnatum	Pink Thoroughwort		ST	G5	S2
Euphorbia serpens	Matted Broomspurge		SE	G5	S1
Gaura filipes	Slender-stalked Gaura		ST	G5	S2
Gentiana alba	Yellow Gentian		SR	G4	S2
Gentiana puberulenta	Downy Gentian		ST	G4G5	S2
Hedyotis nigricans	Narrowleaf Summer Bluets		SR	G5	S2

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Indiana County Endangered, Threatened and Rare Species List

County: Crawford

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Heliotropium tenellum	Slender Heliotrope		ST	G5	S2
Hexalectris spicata	Crested Coralroot		SR	G5	S2
Hydrastis canadensis	Golden Seal		WL	G3G4	S3
Hypericum dolabriforme	Straggling St. John's-wort		SR	G4	S2
Isoetes engelmannii	Appalachian Quillwort		SE	G4	S1
Juglans cinerea	Butternut		WL	G4	S3
Lilium canadense	Canada Lily		SR	G5	S2
Lycopodium dendroideum	Treelike Clubmoss		SE	G5	S1
Magnolia tripetala	Umbrella Magnolia		SE	G5	S1
Matelea obliqua	Angle Pod		SR	G4?	S2
Melica nitens	Three-flower Melic Grass		ST	G5	S2
Melothria pendula	Creeping Cucumber		SE	G5?	S1
Najas gracillima	Thread-like Naiad		ST	G5?	S1
Nothoscordum bivalve	Crow-poison		SR	G4	S2
Oenothera perennis	Small Sundrops		SR	G5	S2
Ophioglossum engelmannii	Limestone Adder's-tongue		SR	G5	S2
Oxalis illinoensis	Illinois Woodsorrel		WL	G4Q	S2
Pachysandra procumbens	Allegheny Spurge		SE	G4G5	S1
Panax quinquefolius	American Ginseng		WL	G3G4	S3
Panicum yadkinense	A Panic-grass		SE	G4Q	S2
Penstemon deamii	Deam Beardtongue		SR	G1	S1
Phlox amplifolia	Large-leaved Phlox		SR	G3G5	S2
Platanthera lacera	Green-fringe Orchis		WL	G5	S3
Pleopeltis polypodioides	Resurrection Fern		SR	G5	S2
Prenanthes aspera	Rough Rattlesnake-root		SR	G4?	S2
Pteridium aquilinum var. pseudocaudatum	Bracken Fern		SX	G5T5	SX
Rubus centralis	Illinois Blackberry		SE	G2?Q	S1
Rubus deamii	Deam Dewberry		SX	G4?	SX
Rubus enslenii	Southern Dewberry		SE	G4G5Q	S1
Rubus odoratus	Purple Flowering Raspberry		ST	G5	S2
Rudbeckia fulgida var. fulgida	Orange Coneflower		WL	G5T4?	S2
Sanicula smallii	Small's Snakeroot		SR	G5	S2
Satureja vulgaris var. neogaea	American Wild Basil		WL	G5	S3
Saxifraga virginiana	Virginia Saxifrage		WL	G5	S3
Scirpus purshianus	Weakstalk Bulrush		SR	G4G5	S2
Scutellaria parvula var. australis	Southern Skullcap		WL	G4T4?	S2
Scutellaria saxatilis	Rock Skullcap		SE	G3	S1
Sedum telephioides	Allegheny Stonecrop		SR	G4	S2
Selaginella apoda	Meadow Spike-moss		WL	G5	S1
Sparganium angustifolium	Branching Bur-reed		ST	G4G5	S2

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<i>Spiranthes vernalis</i>	Grassleaf Ladies'-tresses		WL	G5	S2
<i>Styrax grandifolius</i>	Large-leaf Snowbell		SE	G5	S1
<i>Symphotrichum oblongifolium</i>	Aromatic Aster		SR	G5	S2
<i>Synandra hispidula</i>	Gyandotte Beauty		WL	G4	S3
<i>Thalictrum pubescens</i>	Tall Meadowrue		ST	G5	S2
<i>Tragia cordata</i>	Heart-leaved Noseburn		WL	G4	S2
<i>Trichomanes boschianum</i>	Filmy Fern		SE	G4	S1
<i>Verbesina virginica</i>	White Crownbeard		SE	G5?	S1
<i>Viburnum molle</i>	Softleaf Arrow-wood		SR	G5	S2
<i>Vitis rupestris</i>	Sand Grape		SE	G3	S1
<i>Vittaria appalachiana</i>	Appalachian Vittaria		SR	G4	S2
<i>Waldsteinia fragarioides</i>	Barren Strawberry		SR	G5	S2
<i>Wisteria macrostachya</i>	Kentucky Wisteria		SR	G5	S2
<i>Zizia aptera</i>	Golden Alexanders		SR	G5	S2
High Quality Natural Community					
Barrens - bedrock limestone	Limestone Glade		SG	G4	S2S3
Forest - floodplain mesic	Mesic Floodplain Forest		SG	G3?	S1
Forest - upland dry Shawnee Hills	Shawnee Hills Dry Upland Forest			GNR	S2
Forest - upland dry-mesic Shawnee Hills	Shawnee Hills Dry-mesic Upland Forest			GNR	S3
Forest - upland mesic Shawnee Hills	Shawnee Hills Mesic Upland Forest			GNR	S3
Primary - cave terrestrial	Terrestrial Cave		SG	GNR	SNR
Primary - cliff limestone	Limestone Cliff		SG	GU	S1
Primary - cliff overhang	Sandstone Overhang		SG	G4	S2
Primary - cliff sandstone	Sandstone Cliff		SG	GU	S3
Primary - wash gravel	Gravel Wash		SG	GU	S1
Other Significant Feature					
Freshwater Mussel Concentration Area	Mussel Bed		SG	G3	SNR
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

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Indiana County Endangered, Threatened and Rare Species List

County: **Perry**

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Elliptio crassidens	Elephantear		WL	G5	S2
Lampsilis abrupta	Pink Mucket	LE	SE	G2	SX
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Plethobasus cyphus	Sheepnose	LE	SE	G3	S1
Pleurobema cordatum	Ohio Pigtoe		SSC	G4	S2
Quadrula cylindrica cylindrica	Rabbitsfoot	LT	SE	G3G4T3	S1
Villosa lienosa	Little Spectaclecase		SSC	G5	S3
Insect: Homoptera					
Prairiana kansana	The Kansas Prairie Leafhopper		SE	GNR	S1S2
Insect: Lepidoptera (Butterflies & Moths)					
Achalarus lyciades	Hoary Edge Skipper		SR	G5	S2S3
Amblyscirtes aesculapius	Lace-winged Roadside-skipper		SR	G3G4	S1
Amblyscirtes belli	Bell's Roadside-skipper		ST	G3G4	S1
Amblyscirtes hegon	Salt-and-pepper Skipper		SR	G5	S2
Atrytonopsis hianna	Dusted Skipper		ST	G4G5	S1S2
Calephelis muticum	Swamp Metalmark		ST	G3	S2
Cylopsis gemma	Gemmed Satyr		SR	G4G5	S2
Erynnis martialis	Mottled Duskywing		ST	G3	S2S3
Grammia anna	Anna's tiger moth		SR	G5	S2S3
Papaipema beeriana	Beer's Blazing Star Borer Moth		ST	G2G3	S1S3
Schinia jaguarina	Jaguar Flower Moth		SE	G4	S1
Insect: Odonata (Dragonflies & Damselflies)					
Archilestes grandis	Great Spreadwing		SR	G5	S3
Cordulegaster obliqua	Arrowhead Spiketail		SR	G4	S2S3
Arachnida					
Calymmaria cavicola	Cave Funnel-web Spider			GNR	S1
Amphibian					
Aneides aeneus	Green Salamander	C	SE	G3G4	S1
Reptile					
Crotalus horridus	Timber Rattlesnake		SE	G4	S2
Terrapene carolina carolina	Eastern Box Turtle		SSC	G5T5	S3
Bird					
Accipiter striatus	Sharp-shinned Hawk		SSC	G5	S2B
Ammodramus henslowii	Henslow's Sparrow		SE	G4	S3B
Buteo lineatus	Red-shouldered Hawk		SSC	G5	S3
Buteo platypterus	Broad-winged Hawk		SSC	G5	S3B
Haliaeetus leucocephalus	Bald Eagle		SSC	G5	S2
Helmitheros vermivorus	Worm-eating Warbler		SSC	G5	S3B

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Indiana County Endangered, Threatened and Rare Species List

County: Perry

Species Name	Common Name	FED	STATE	GRANK	SRANK
Lanius ludovicianus	Loggerhead Shrike		SE	G4	S3B
Mniotilta varia	Black-and-white Warbler		SSC	G5	S1S2B
Setophaga cerulea	Cerulean Warbler		SE	G4	S3B
Tyto alba	Barn Owl		SE	G5	S2
Wilsonia citrina	Hooded Warbler		SSC	G5	S3B
Mammal					
Myotis grisescens	Gray Bat	LE	SE	G4	S1
Myotis sodalis	Indiana Bat or Social Myotis	LE	SE	G2	S1
Sorex hoyi	Pygmy Shrew		SSC	G5	S2
Vascular Plant					
Acalypha deamii	Mercury		SR	G4?	S2
Aconitum uncinatum	Blue Monkshood		SE	G4	S1
Baptisia australis	Wild False Indigo		SR	G5	S2
Buchnera americana	Bluehearts		SE	G5?	S1
Bumelia lycioides	Buckthorn		SE	G5	S1
Calyocarpum lyonii	Cup-seed		ST	G5	S2
Carex bushii	Bush's Sedge		ST	G4	S1
Catalpa speciosa	Northern Catalpa		SR	G4?	S2
Cheilanthes lanosa	Hairy Lipfern		SR	G5	S2
Cirsium carolinianum	Carolina Thistle		SR	G5	S2
Crataegus intricata	A Hawthorn		SR	G5	S2
Cypripedium parviflorum var. pubescens	Large Yellow Lady's-slipper		WL	G5T5	S3
Dodecatheon frenchii	French's Shootingstar		SR	G3	S2
Eupatorium album	White Thoroughwort		ST	G5	S1
Eupatorium incarnatum	Pink Thoroughwort		ST	G5	S2
Euphorbia serpens	Matted Broomspurge		SE	G5	S1
Festuca paradoxa	Cluster Fescue		ST	G5	S1
Gentiana alba	Yellow Gentian		SR	G4	S2
Hydrastis canadensis	Golden Seal		WL	G3G4	S3
Hypericum denticulatum	Coppery St. John's-wort		ST	G5	S2
Juglans cinerea	Butternut		WL	G4	S3
Juncus articulatus	Jointed Rush		SE	G5	S1
Juncus secundus	Secund Rush		SE	G5?	S1
Lilium canadense	Canada Lily		SR	G5	S2
Linum striatum	Ridged Yellow Flax		WL	G5	S3
Linum sulcatum	Grooved Yellow Flax		SR	G5	S2
Ludwigia decurrens	Primrose Willow		WL	G5	S2
Matelea obliqua	Angle Pod		SR	G4?	S2
Melothria pendula	Creeping Cucumber		SE	G5?	S1
Nothoscordum bivalve	Crow-poison		SR	G4	S2

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Indiana County Endangered, Threatened and Rare Species List

County: Perry

Species Name	Common Name	FED	STATE	GRANK	SRANK
Ophioglossum engelmannii	Limestone Adder's-tongue		SR	G5	S2
Oxalis illinoensis	Illinois Woodsorrel		WL	G4Q	S2
Oxydendrum arboreum	Sourwood		SR	G5	S2
Panax quinquefolius	American Ginseng		WL	G3G4	S3
Panicum verrucosum	Warty Panic-grass		ST	G4	S2
Panicum yadkinense	A Panic-grass		SE	G4Q	S2
Passiflora incarnata	Purple Passion-flower		SR	G5	S2
Phlox amplifolia	Large-leaved Phlox		SR	G3G5	S2
Phlox pilosa ssp. deamii			SE	G5T3T4	S1
Pleopeltis polypodioides	Resurrection Fern		SR	G5	S2
Polytaenia nuttallii	Prairie Parsley		SE	G5	S1
Prenanthes aspera	Rough Rattlesnake-root		SR	G4?	S2
Rhynchospora corniculata var. interior	Short-bristle Horned-rush		ST	G5TNR	S2
Rubus deamii	Deam Dewberry		SX	G4?	SX
Rubus enslenii	Southern Dewberry		SE	G4G5Q	S1
Rudbeckia fulgida var. fulgida	Orange Coneflower		WL	G5T4?	S2
Rudbeckia fulgida var. umbrosa	Coneflower		SE	G5T4T5	S1
Sagittaria australis	Longbeak Arrowhead		SR	G5	S2
Sanicula smallii	Small's Snakeroot		SR	G5	S2
Saxifraga virginensis	Virginia Saxifrage		WL	G5	S3
Scirpus purshianus	Weakstalk Bulrush		SR	G4G5	S2
Scutellaria parvula var. australis	Southern Skullcap		WL	G4T4?	S2
Scutellaria parvula var. parvula	Small Skullcap		SE	G4T4	S1
Sedum telephioides	Allegheny Stonecrop		SR	G4	S2
Setaria geniculata	Bristly Foxtail		WL	G5	S3
Spiranthes vernalis	Grassleaf Ladies'-tresses		WL	G5	S2
Stachys clingmanii	Clingman Hedge-nettle		SE	G2	S1
Stenanthium gramineum	Eastern Featherbells		ST	G4G5	S1
Strophostyles leiosperma	Slick-seed Wild-bean		ST	G5	S2
Thalictrum pubescens	Tall Meadowrue		ST	G5	S2
Tragia cordata	Heart-leaved Noseburn		WL	G4	S2
Trichomanes boschianum	Filmy Fern		SE	G4	S1
Trifolium reflexum var. glabrum	Buffalo Clover		SE	G5T2T4Q	S1
Verbesina virginica	White Crownbeard		SE	G5?	S1
Viola hirsutula	Southern Wood Violet		SE	G4	S1
Vittaria appalachiana	Appalachian Vittaria		SR	G4	S2
Wisteria macrostachya	Kentucky Wisteria		SR	G5	S2
Woodwardia areolata	Netted Chainfern		SR	G5	S2
Zizia aptera	Golden Alexanders		SR	G5	S2

High Quality Natural Community

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Indiana County Endangered, Threatened and Rare Species List
County: Perry

Species Name	Common Name	FED	STATE	GRANK	SRANK
Barrens - bedrock limestone	Limestone Glade		SG	G4	S2S3
Barrens - bedrock sandstone	Sandstone Glade		SG	G2	S1
Forest - upland dry Shawnee Hills	Shawnee Hills Dry Upland Forest			GNR	S2
Forest - upland dry-mesic Shawnee Hills	Shawnee Hills Dry-mesic Upland Forest			GNR	S3
Primary - cliff overhang	Sandstone Overhang		SG	G4	S2
Primary - cliff sandstone	Sandstone Cliff		SG	GU	S3
Other Significant Feature					
Freshwater Mussel Concentration Area	Mussel Bed		SG	G3	SNR
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

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Categorical Exclusion
Appendix F
Water Resources

Waters of the U.S. Report

March 20, 2020

SR 62 Slide Correction

Prepared by: Sean Langley

Approved 3.20.2020 by:

Maryssa Engstrom

Des. No.: 1601034

Contract No.: R-39919

Note: A portion of the graphics have been removed to avoid duplication and reduce file size.



Lochmueller Group, Inc.

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**Waters Report
SR 62 Slide Correction Project
in Perry County, Indiana
DES No. 1601034**

Date(s) of Field Reconnaissance

October 07, 2019

Location

The project is on SR 62 approximately 0.88 miles east of SR 37 at RP 92.4 (Pages A1 through A3).

- Oil Township, Perry County, Indiana
- Township 3 South; Range 2 West, Section 25
- Branchville 1:24,000 U.S. Geological Survey (USGS) Quadrangle
- Latitude: 38.22589° Longitude: -86.576911° (centroid)

Project Description

The proposed project is a slide correction on the north and south side of SR 62, 0.88 mile east of SR 37 at RP 92.4 in Perry County. The slide will be corrected by constructing a 400' long buttress fill with 3:1 sideslopes. An existing 4-foot by 4-foot box cross culvert (CV 062-062-92.36) is located within the project limits, and it is anticipated that lengthening of the box will be required as part of the project. Additional work outside the slide correction length will include roadside ditch grading, shoulder widening, and Hot Mix Asphalt (HMA) mill and overlay construction. This project is anticipated to require approximately 1.4 acres of permanent right-of-way (ROW). Tree clearing is anticipated within the proposed ROW.

Soils

According to the Soil Survey Geographic (SSURGO) Database for Posey County, Indiana, the project area does not contain soil areas with nationally listed hydric soils (Page A4).

Soil Name	Map Abbreviation	Hydric Range
Adyeville-Tipsaw-Ebal complex, 20 to 50 percent slopes, very rocky	AccG	0%
Apalona-Zanesville silt loams, 2 to 6 percent slopes	AgrB	0%
Ebal-Deuchars-Kitterman complex, 12 to 24 percent slopes, eroded	EabD2	0%

National Wetlands Inventory (NWI) Information

There are no U.S. Fish and Wildlife Service (USFWS) NWI mapped wetland features within the survey area. The closest NWI mapped wetland is located approximately 0.35 mile northeast of the survey area and is classified as a palustrine unconsolidated bottom intermittently exposed diked/impounded (PUBGH) (Page A5).

12-Digit HUC (Hydrologic Unit Code)

The SR 62 Slide Correction is within the 051402010301 12-Digit HUC (Headwaters Middle Fork Anderson River) (Page A2). The USGS StreamStats (<https://water.usgs.gov/osw/streamstats/>) watershed is 0.04 square miles within the survey area. (Page A6).



The Federal Emergency Management (FEMA) Flood Map Service Center (<https://msc.fema.gov/portal/home>) and the Indiana Floodplain Information Portal (<https://dnrmmaps.dnr.in.gov/appsphp/fdms/>) Best Available Flood Zones data indicated that the survey area is not within any mapped floodway or FEMA Zone A/AE floodplain areas (Page A7).

Attached Documents

- Location Map
- USGS Topographic Map (1:24,000)
- USGS Topographic Map (1:12,000)
- USDA SSURGO Soils Map with Perry County Hydric Soil List and Components
- USFWS NWI Features Map
- USGS StreamStats Watershed Map
- IDNR, Division of Water - Best Available Flood Hazard Map
- Water Resources
- Photo Index Map
- Project Photos
- U.S. Army Corps of Engineers (USACE) Wetland Determination Data Form
- USACE Pre-Jurisdictional Determination Form

Field Reconnaissance

WETS (NRCS National Water and Climate Center <http://agacis.rcc-acis.org/>) data for Perry County was used to determine the growing season for Perry County based on a 50 percent probability of 28°F or higher air temperatures in spring and fall in accordance with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0* (U.S. Army Corps of Engineers 2012). For the period of record from 1902 to 2019, the Perry County growing season is from March 25 to November 10. This field survey was conducted within the growing season. For those features that displayed bed and bank, the OHWM width and depth was measured at the maximum dimension observed beyond the influence of bridge and culvert structures. Stream features within the survey area were mapped using aerial photography. OHWM measurements were also documented for any stream features observed in the field that were not included as blue-line or National Hydrography Dataset (NHD) features.

Stream Feature(s)

The USGS Branchville 1:24,000 topographic quadrangle did not identify a solid blue-line stream feature within the SR 62 project survey area (Pages A2 and A3). The NHD GIS dataset included 1 flow line features within the survey area (Page A7). Field investigation concluded that the flow line feature exhibited streams with bed and bank and OHWM and is designated as an unnamed tributary (UNT) to Tige Creek.

UNT of Tige Creek:

UNT of Tige Creek is an ephemeral stream that flows from southeast to northwest across the survey area, under SR 62 (Page A8). Approximately 314 feet of the stream is within the survey area. The OHWM



of the UNT to Tige Creek is 4 feet wide and 0.6 feet deep. The drainage area is estimated to be 0.04 square miles. This stream feature is not included on the USFWS NWI Map (Page A5). According to the Indiana Floodplain Information Portal (<https://dnrmapping.dnr.in.gov/appsphp/fdms/>), there are no mapped floodways or floodplains associated with the UNT to Tige Creek (Page A7).

This reach of the stream has a flat bottom streambed that does not exhibit riffle/run/pool structure. The substrate of the UNT to Tige Creek is comprised of cobble, gravel, and silt. Riparian vegetation is primarily comprised of sugar maple (*Acer saccharum*), pin oak (*Quercus palustris*), and American sycamore (*Platanus occidentalis*) with sparse herbaceous cover. This reach of the UNT to Tige Creek is considered to exhibit average quality based on the lack of stream flow, riffle/run/pool structure, and a wide riparian buffer. Photos 7 through 12 (Page A17) indicate stream and bank conditions for this reach.

The UNT to Tige Creek is considered to be a non-relatively permanent waterway (non-RPW) with a connection to a traditionally navigable waterway (TNW), Ohio River, via another UNT to Tige Creek, Tige Creek, Middle Fork Anderson River, and Anderson River. Therefore, the UNT to Tige Creek is subject to USACE jurisdiction under section 404 of the Clean Water Act. This stream is not subject to USACE jurisdiction under Section 10 of the River and Harbors Act.

Stream Summary Table

Water Feature Name	Photo	Lat/Long	OHW Width (ft)	OHW Depth (ft)	USGS Blue-line? Type?	Riffles? Pools?	Quality	Substrate	Likely Waters of U.S.?
UNT to Tige Creek	7-12	38.225889 -86.576911	4.0	0.6	No	No	Poor	Cobble, Gravel, Silt	Yes

Wetlands

One wetland feature (Wetland A) was identified within the SR 62 Slide Correction Project survey area limits (Page A8).

Wetland A:

Wetland A is a 0.12-acre emergent wetland situated within the southeastern portion of the survey area (Page A8). It is located along the roadside abutting and draining into UNT to Tige Creek. Therefore, Wetland A is subject to Clean Water Act jurisdiction due to a direct hydrologic connection with UNT to Tige Creek, a relatively permanent water (RPW). As defined by *Cowardin et al. (1979)*, this wetland would be classified as palustrine emergent, persistent, seasonally flooded/saturated (PEM1E). Based on a qualitative assessment of Wetland A, this wetland is of poor quality due to its size and function along the roadside.

Wetland data point (AW1) represents wetland conditions within Wetland A (Page A10, A11, and A12). Wetland A is located in the southwest portion of the survey area. The dominant tree stratum within the wetland consisted of red maple (*Acer rubrum*, FAC). The dominant sapling/shrub stratum within Wetland A consisted of northern spicebush (*Lindera benzoin*, FAC). The dominant herb stratum within



Wetland A consisted of jewelweed (*Impatiens capensis*, FACW) and sensitive fern (*Onoclea sensibilis*, FACW). Hydrophytic vegetation is present since 100 percent of the dominant species are FAC or wetter. No primary indicators of hydrology were present; however, secondary indicators of hydrology included FAC-neutral test (D5), crayfish burrows (C8), and drainage patterns (B10). Therefore, wetland hydrology is present. The USDA NRCS Web Soil Survey indicates that this data point is within the Adyeville-Tipsaw-Ebal complex. The Adyeville-Tipsaw-Ebal series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 20 inches consisted of a 10YR 3/1 (90%), 10YR 5/1 (5%), and 10YR 4/6 sandy/loamy layer to a depth of 5 inches. The soil profile consisted of 10YR 5/2 (90%) and 10YR 4/6 (10%) from a depth of 5 inches to 14 inches. The soil profile consisted of 10YR 5/1 (75%) and 10YR 4/6 (25%) from a depth of 14 inches to 20 inches. The soil profile examined at this location meets the depleted below dark surface (A11) and sandy redox (S5) indicators; therefore, hydric soil is present. This data point meets the requirements for hydrophytic vegetation, wetland hydrology, and hydric soils; therefore, this data point is within a wetland. Photographs 21, 22, 23, and 24 on Page A19 show the conditions of Wetland during the time of the field review.

Upland data point (AU1) represents non-wetland conditions for Wetland A (Pages A13, A14, and A15). There were no tree or woody vine stratum identified within the data point area. The dominant tree stratum consisted of sugar maple (*Acer saccharum*, FACU) and white oak (*Quercus alba*, FACU). Dominant species within the sapling/shrub stratum consisted of American beech (*Fagus grandifolia*, FACW), shagbark hickory (*Carya ovata*, FACU), and green ash (*Fraxinus pennsylvanica*, FACW). The dominant species within the herb stratum consisted of Christmas fern (*Polystichum arostichoides*, FACU). Hydrophytic vegetation is not present since only 16.7% percent of the dominant species are FAC or wetter. There were no primary or secondary indicators of wetland hydrology. Therefore, wetland hydrology is not present. The USDA NRCS Web Soil Survey indicates that this data point is within the Adyeville-Tipsaw-Ebal series is not considered to be a hydric soil. The soil profile from a pit excavated to a depth of 6 inches consisted of a 10YR 5/4 (100%) loamy/sandy layer to a depth of 6 inches. Due to the dry and hard compacted nature of the soil at this location, a soil pit could not be excavated with hand tools. Based on the lack of a mapped hydric soil, the hard and dry nature of the soil, and the local landscape position of the data point at an elevation beyond the anticipated influence of water within the adjacent ditch bottom, hydric soil indicators are not presumed to be present. The soil profile examined at this location does not meet any hydric soil indicator; therefore, hydric soil is not present. None of the three required wetland criteria were present within this data point; therefore, this data point is not within a wetland (Pages A13 through A15).

Data Point Summary Table

Data Point	Vegetation	Soils	Hydrology	Wetland
AW1	Yes	Yes	Yes	Yes
AU1	No	No	No	No



Wetland Summary Table

Wetland Name	Photos	Lat/Long	Type	Total Area (acres)	Quality	Likely Waters of U.S.?
Wetland A	21-24	38.22557 N -86.576304 W	PEM1	0.12	Average	Yes

Open Water

There are no open water areas for consideration as WOTUS or non-WOTUS features within the survey area (Page A5).

Other Features

There are no roadside ditches for consideration as WOTUS or non-WOTUS features within the survey area (Page A9).

Conclusions

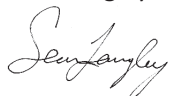
The Waters of the U.S. investigation conducted for the SR 62 Slide Correction concludes that there is one wetland feature (Wetlands A) and one stream (UNT to Tige Creek) within the survey area. The wetland feature and stream feature are likely to be considered under USACE jurisdiction per Section 404 of the CWA because they have connections to Tige Creek (RPW). No WOTUS or non-WOTUS roadside ditch features were identified within the project survey area. No WOTUS or non-WOTUS open water features were identified within the survey area.

Wetland A and UNT to Tige Creek are likely Waters of the U.S. Every effort should be taken to avoid and minimize impacts to the waterway and wetland. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. All culverts investigated within the project survey area for the presence of bat species were found to show no direct or indirect signs of occupation. This report is our best judgment based on the guidelines set forth by the Corps.

Acknowledgement

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.

Sean Langley

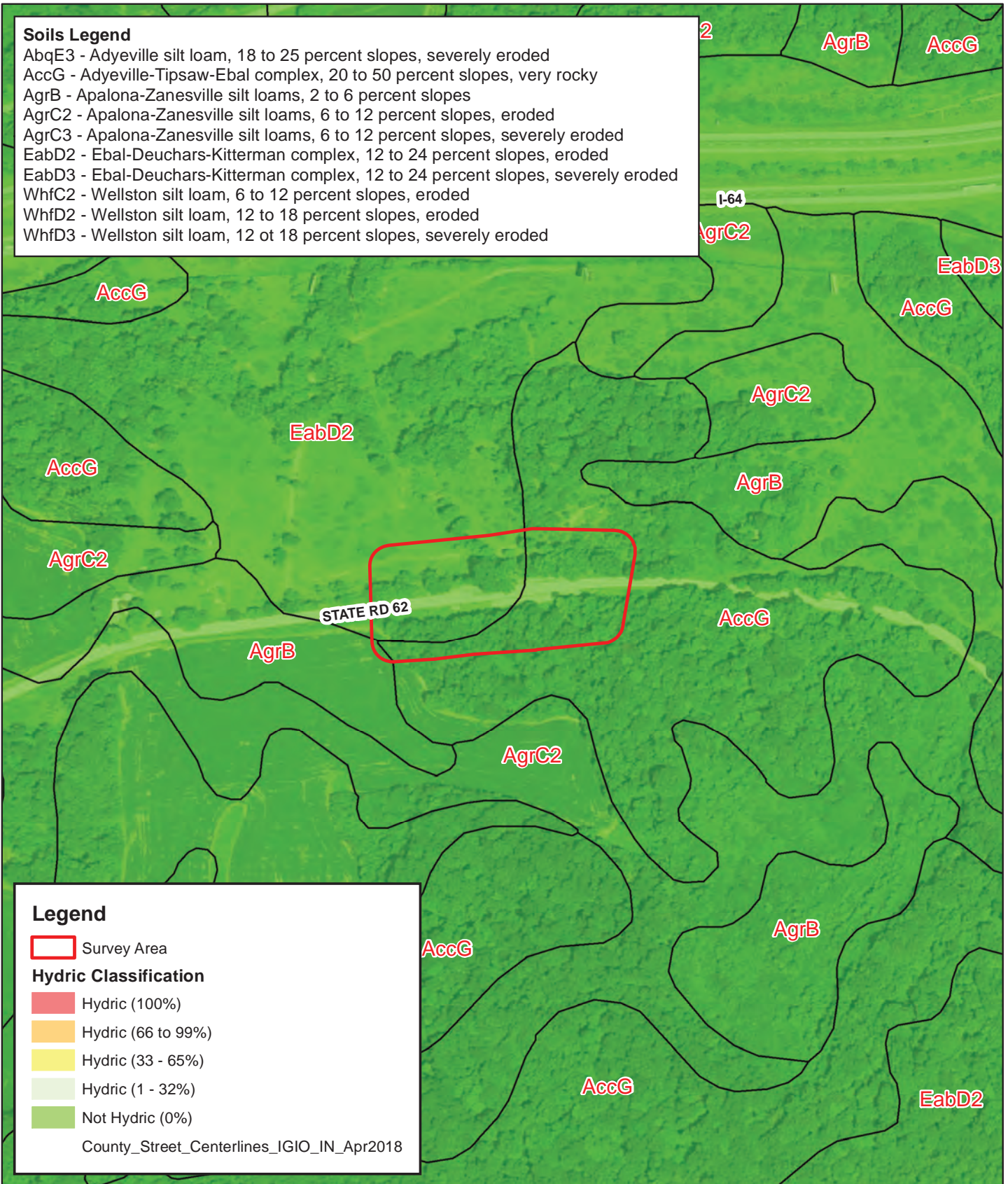


Environmental Biologist
 Lochmueller Group, Inc.



Soils Legend

- AbqE3 - Adyeville silt loam, 18 to 25 percent slopes, severely eroded
- AccG - Adyeville-Tipsaw-Ebal complex, 20 to 50 percent slopes, very rocky
- AgrB - Apalona-Zanesville silt loams, 2 to 6 percent slopes
- AgrC2 - Apalona-Zanesville silt loams, 6 to 12 percent slopes, eroded
- AgrC3 - Apalona-Zanesville silt loams, 6 to 12 percent slopes, severely eroded
- EabD2 - Ebal-Deuchars-Kitterman complex, 12 to 24 percent slopes, eroded
- EabD3 - Ebal-Deuchars-Kitterman complex, 12 to 24 percent slopes, severely eroded
- WhfC2 - Wellston silt loam, 6 to 12 percent slopes, eroded
- WhfD2 - Wellston silt loam, 12 to 18 percent slopes, eroded
- WhfD3 - Wellston silt loam, 12 to 18 percent slopes, severely eroded



Legend

Survey Area

Hydric Classification

- Hydric (100%)
- Hydric (66 to 99%)
- Hydric (33 - 65%)
- Hydric (1 - 32%)
- Not Hydric (0%)

County_Street_Centerlines_IGIO_IN_Apr2018



6200 Vogel Road
 Evansville IN, 47715
 Phone: (812) 479-6200
 Toll Free: (800) 423-7411

USDA SSURGO Soils Map

Des. No. 1601034



County: Perry
 Township: Oil
 State: Indiana

SR 62 Slide - CHY
 Loch. Group Project No.:117-0035-CHY
 Created:3/19/2020, S. Langley



PUBGh

OPTICAL RD (227)

I-64

I-64

STATE RD 62

Legend

- Survey Area
- R2UBH stream
- PFO1A wetland
- PUBGh wetland
- PEM1C wetland
- PFO1A wetland

Source: 2018 NAIP

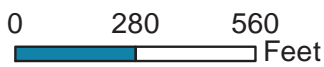


6200 Vogel Road
 Evansville IN, 47715
 Phone: (812) 479-6200
 Toll Free: (800) 423-7411

USFWS NWI Project Map

Des. No. 1601034

County: Perry
 Township: Oil
 State: Indiana



SR 62 Slide - CHY
 Loch. Group Project No.: 117-0035-CHY
 Created: 3/19/2020, M. Brendel



Legend

- Survey Area
- Watershed

Source: NAIP 2018
 Watershed Source: StreamStats Version 4




LOCHMUELLER GROUP

6200 Vogel Road
 Evansville IN, 47715
 Phone: (812) 479-6200
 Toll Free: (800) 423-7411

StreamStats Watershed Map

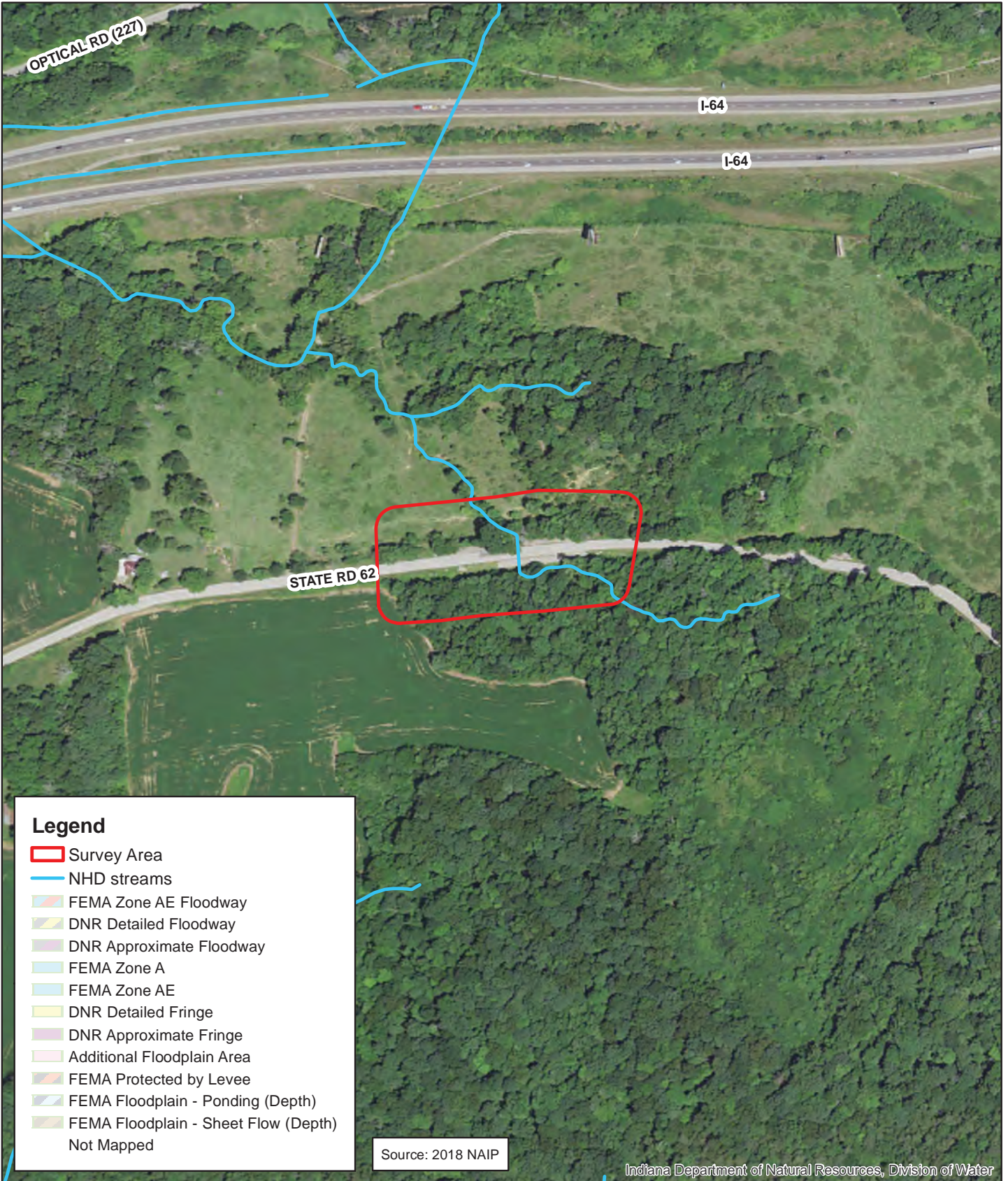
Des. No. 1601034
 Waters of the U.S. Report

0 500 1,000
 Feet



County: Perry
 Township: Oil
 State: Indiana

SR 62 Slide - CHY
 Loch. Group Project No.: 117-0035-CHY
 Created: 3/19/2020, M. Brendel



Legend

- Survey Area
- NHD streams
- FEMA Zone AE Floodway
- DNR Detailed Floodway
- DNR Approximate Floodway
- FEMA Zone A
- FEMA Zone AE
- DNR Detailed Fringe
- DNR Approximate Fringe
- Additional Floodplain Area
- FEMA Protected by Levee
- FEMA Floodplain - Ponding (Depth)
- FEMA Floodplain - Sheet Flow (Depth)
- Not Mapped

Source: 2018 NAIP

Indiana Department of Natural Resources, Division of Water

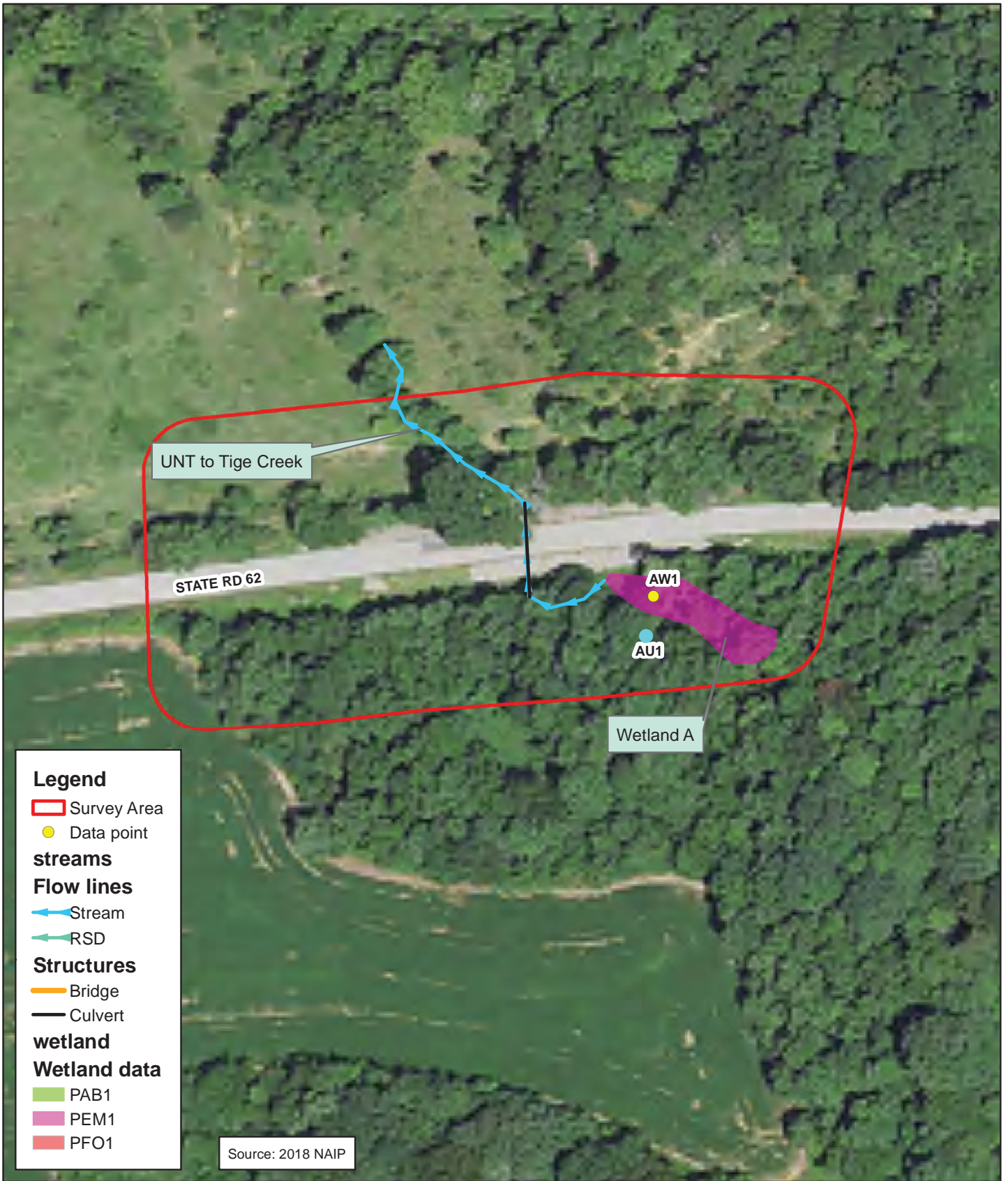
Best Available Flood Hazard

IDNR, Division of Water
Des. No. 1601034

County: Perry
Township: Oil
State: Indiana



SR 62 Slide - CHY
Loch. Group Project No.:117-0035-CHY
Created:3/19/2020, M. Brendel



Legend

- Survey Area
- Data point

streams

Flow lines

- ← Stream
- ← RSD

Structures

- Bridge
- Culvert

wetland

Wetland data

- PAB1
- PEM1
- PFO1

Source: 2018 NAIP

Water Resources Map
 Des. No. 1601034
 Waters of the U.S. Report

0 75 150
 Feet

N

County: Perry
 Township: Oil
 State: Indiana

SR 62 Slide - CHY
 Loch. Group Project No.:117-0035-CHY
 Created:2/25/2020, M. Brendel

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
UNT to Tige Creek	38.225889	-86.576911	314 feet	non-wetland	Section 404
Wetland A	38.22557	-86.576304	0.12 acres	wetland	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: Location map, topographic, soils, NWI, floodplain, k aerial.
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report. Rationale: _____.
- Data sheets prepared by the Corps: _____.
- Corps navigable waters' study: _____.
- U.S. Geological Survey Hydrologic Atlas: _____.
- USGS NHD data.
- USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Branchville.
- Natural Resources Conservation Service Soil Survey. Citation: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.
- National wetlands inventory map(s). Cite name: <https://www.fws.gov/wetlands/Data/Mapper.html>.
- State/local wetland inventory map(s): _____.
- FEMA/FIRM maps: FIRM Map Number 18123C0125D.
- 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): Orthophotography of Indiana 2018
or Other (Name & Date): Ground photos October 7, 2019.
- Previous determination(s). File no. and date of response letter: _____.
- Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory staff member
completing PJD

Sean Langley Digitally signed by Sean Langley
Date: 2020.02.25 20:36:34 -06'00'

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

From: Engstrom, Maryssa H <MEngstrom@indot.IN.gov>
Sent: Friday, March 20, 2020 12:12 PM
To: Langley, Sean
Cc: Rehder, Crystal; Moon, Kyanna
Subject: RE: Waters Report Des 1601034 SR 62 Slide Correction at RP 92.4
Attachments: 1601034 Waters Report Approved 3.20.2020.pdf

Hello Sean,

Looks Great!

Thank you for submitting the waters report for **SR 62 Slide Correction, Des. No. 1601034**. Your most recent submission has been reviewed and approved. For the INDOT PM, the approved report can be found on Projectwise through this link: **Des. No. 1601034 Waters Report - Final**. It is the responsibility of the Project Manager to forward a copy of this report to the Project Designer.

The information in this report should be used by the Project Designer to determine if waters of the U.S. will be impacted by the project. Avoidance and minimization of impacts must occur before mitigation will be considered. If mitigation is required, the Project Manager or Project Designer must coordinate with the Ecology and Waterway Permitting Office to discuss how adequate compensatory mitigation will be provided.

The Project Manager should notify the Ecology and Waterway Permitting Office if there is any change to the project footprint presented in this report. Such changes may require additional fieldwork and submittal of an updated waters report covering areas not previously investigated. This report is only valid for a period of five years from the date of earliest fieldwork. If the report expires prior to waterway permit application submittal, additional fieldwork and a revised waters report will be required.

It will not be sent to the United States Army Corps of Engineers (USACE) or the Indiana Department of Environmental Management (IDEM) until the waterways permit applications are submitted to these agencies.

The following are questions to expedite the next step of the permitting process:

For the above referenced project, please get me answers to the following questions so that I may complete the permit determination.

- Will work be confined to the existing pavement? Please bear in mind that full-depth replacement and shoulder work is soil disturbance. If the answer to this is yes, then the remaining questions to not need answered.
- What kind of structure work is associated with this project (replacement, painting, scour protection, etc.)? If a pipe liner project, please specify the type and include an INDOT hydraulics memo if available.
- What is the estimated total soil disturbance associated with this project in acres? Disturbance includes (among other items):
 - Full-depth replacement;
 - Shoulder work;
 - Construction entrances;
 - Riprap drainage turnouts riprap around bridge cones;
 - Area under the bridge where equipment will be driving and working;
 - Cofferdams or dewatering systems scour work
 - Excavation around piers



Click on the map or enter an address to view Floodplain Information at that Point of Interest.

What does INFIP do?

The Indiana Floodplain Information Portal, INFIP, is a mapping application that provides floodplain information for waterways to help citizens determine flood risk in an effort to minimize flood damage. INFIP utilizes FEMA published floodplain data and floodplain data from various, IDNR approved resources in order to provide the most available, comprehensive coverage of floodplain information for the State of Indiana.

The main functions of INFIP enables you to:

- select a Point of Interest (i.e. residence or tract of land) to view floodplain mapping and the Base Flood Elevations (BFE)
- print a floodplain map for a Point of Interest
- submit a request for a Floodplain Analysis / Regulatory Assessment (FARA) from the Division of Water using the eFARA (electronic

- ▶ [Click to learn how to navigate the map](#)
- ▶ [Click to learn how to submit eFARA](#)
- ▶ [Click to learn about Special Flood Hazard Areas \(SFHA\) and Base Flood Elevations \(BFE\)](#)
- ▶ [Click to learn about flood insurance](#)
- ▶ [Click to learn about local community floodplain ordinance](#)

Download Report

To generate a report, please zoom in and select a point of interest on the map by clicking on a location.



Currently centered on: Perry County

Categorical Exclusion
Appendix G
Public Involvement

December 13, 2017

Michael K. Brooks
Timothy J. Brooks
9257 SR 48
Aurora, IN 47001

Sample Letter

NOTICE OF SURVEY

RE: S.R. 62. Slide Correction Projects:

- Approximately 0.88 miles East of S.R. 37 in Perry County, Indiana.
 - Loch Group Project No.: 117-0035-CHY
- Approximately 1.18 miles East of S.R. 37 in Perry County-Crawford County, Indiana.
 - Loch Group Project No.: 117-0035-DHY

Dear Property Owner:

Research of county records indicates that you own or occupy property(s) near this proposed Slide Correction Projects. Our employees will be doing a survey of the project area(s) in the near future. It may be necessary for them to come onto your property to complete this work. These procedures are allowed by Indiana Code IC 8-23-7-26. If you are available, our surveyors will show identification before coming onto your property. If you have sold this property, or it is occupied by someone else, please advise us of the name and address of the current owner/occupant so that we may contact them about the survey.

At this stage we do not know what effect, if any, our project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

The survey work will include mapping the location of features such as buildings, trees, fences and drives, as well as obtaining ground elevations. The survey work may include the identification and mapping of wetlands and streams, and various other environmental studies. This work is necessary for the proper planning and design of this proposed Slide correction Projects.

Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please contact our field crew or call me at **(812-479-6200)**, or write to me at the above address. Thank you in advance for your cooperation.

Sincerely yours,

LOCHMUELLER GROUP, INC.



Sean L. Suttles, P.S. Chief of Surveying

Categorical Exclusion
Appendix H
Air Quality

Note: This project is bundled with 11 other slide correction projects. They were bundled and incorporated into the STIP under the lead Des No. 1601032.

Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2020 - 2024

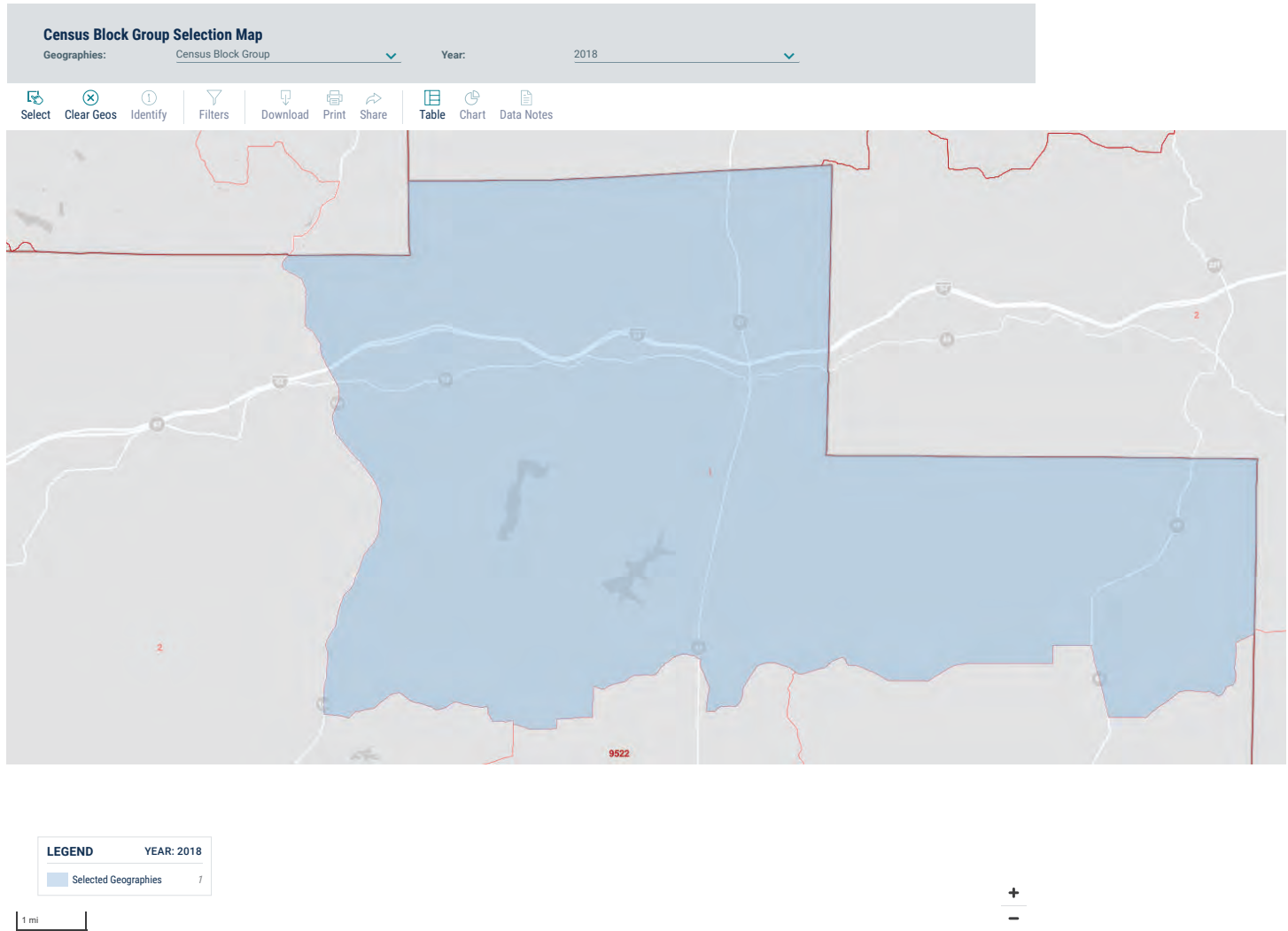
SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
Crawford County																		
Crawford County	1592981	Init.	VA VARI	Bridge Inspections	Countywide Bridge Inspection and Inventory Program for Cycle Years 2019-2022	Vincennes	0	Multiple		Local Funds	PE	\$0.00	\$127,287.20	\$31,372.00	\$15,407.00	\$72,512.49	\$7,995.71	
										Local Bridge Program	PE	\$509,148.76	\$0.00	\$125,488.00	\$61,628.00	\$290,049.95	\$31,982.83	
Crawford County	37710 / 1400804	Init.	IR 1014	Bridge Replacement, Steel	0.32 miles North of East Buzzards Roost Road over Mill Creek (Bridge 42)	Vincennes	.19	STPBG		Local Funds	CN	\$0.00	\$609,918.26		\$609,918.26			
										Local Bridge Program	CN	\$2,439,673.04	\$0.00		\$2,439,673.04			
Crawford County	37711 / 1400825	Init.	IR 1017	Bridge Replacement	0.7 miles North of Beechwood Way (Bridge 43)	Vincennes	.21	STPBG		Demonstration Fund Program	CN	\$1,260,851.69	\$0.00	\$1,260,851.69				
										Local Funds	CN	\$0.00	\$493,114.10	\$493,114.10				
										Local Bridge Program	CN	\$711,604.70	\$0.00	\$711,604.70				
Crawford County	37711 / 1400825	M 01	IR 1017	Bridge Replacement	0.7 miles North of Beechwood Way (Bridge 43)	Vincennes	.21	STPBG	\$3,034,370.00	Local Funds	CN	\$0.00	\$104,873.90	(\$462,114.10)	\$586,988.00			
										Local Bridge Program	CN	\$1,883,547.30	\$0.00	(\$584,404.70)	\$2,267,952.00			
Comments:Modify 2020-2024 STIP. Leaving FY20 CN Federal \$127,200.00, FY20 CN Local \$31,800.00 and moving rest of CN to FY21. No longer Demo Funds on this project. Funding is now Federal Bridge. No MPO.																		
Indiana Department of Transportation	37942 / 1401374	Init.	SR 66	HMA Overlay, Preventive Maintenance	From SR 62 to 0.58 mile South of SR 64	Vincennes	11.665	STPBG		Road Construction	CN	\$2,299,290.40	\$574,822.60		\$2,874,113.00			
Indiana Department of Transportation	39919 / 1601032	Init.	SR 62	Slide Correction	Approximately 2.0 miles E of SR-237	Vincennes	0	STPBG		Road Construction	CN	\$5,304,004.80	\$1,326,001.20		\$6,630,006.00			
Indiana Department of Transportation	39919 / 1601032	A D4	SR 62	Slide Correction	Approximately 2.0 miles E of SR-237	Vincennes	0	NHPP	\$8,990,008.00	Road ROW	RW	\$268,000.00	\$72,000.00	\$360,000.00				
Comments:Amend 2020-2024 STIP. Adding RW FY20 \$360,000.00. No MPO.																		
Indiana Department of Transportation	40074 / 1700007	Init.	I 64	Bridge Deck Overlay	Over Little Blue River, 00.49 miles E SR-37, EBL	Vincennes	0	NHPP		Bridge Construction	CN	\$5,153,188.50	\$572,576.50	\$5,725,765.00				
Indiana Department of Transportation	40539 / 1700172	Init.	SR 237	Small Structure Pipe Lining	2.33 miles N Jct I-64	Vincennes	0	STPBG		Bridge Construction	CN	\$348,434.40	\$87,108.80			\$435,543.00		
										Bridge ROW	RW	\$8,000.00	\$2,000.00	\$10,000.00				
Indiana Department of Transportation	40557 / 1602114	Init.	SR 37	Slide Correction	Approximately 1.02 miles N of SR-64E/SR-237S	Vincennes	.02	STPBG		Road Construction	CN	\$1,569,089.60	\$392,272.40			\$1,961,362.00		
										Road ROW	RW	\$64,000.00	\$16,000.00	\$80,000.00				
Indiana Department of Transportation	40566 / 1601063	Init.	SR 66	HMA Overlay, Preventive Maintenance	From 0.87 mi S of SR-64 to SR-64	Vincennes	.857	STPBG		Road Construction	CN	\$278,016.80	\$69,504.20		\$10,000.00	\$337,521.00		

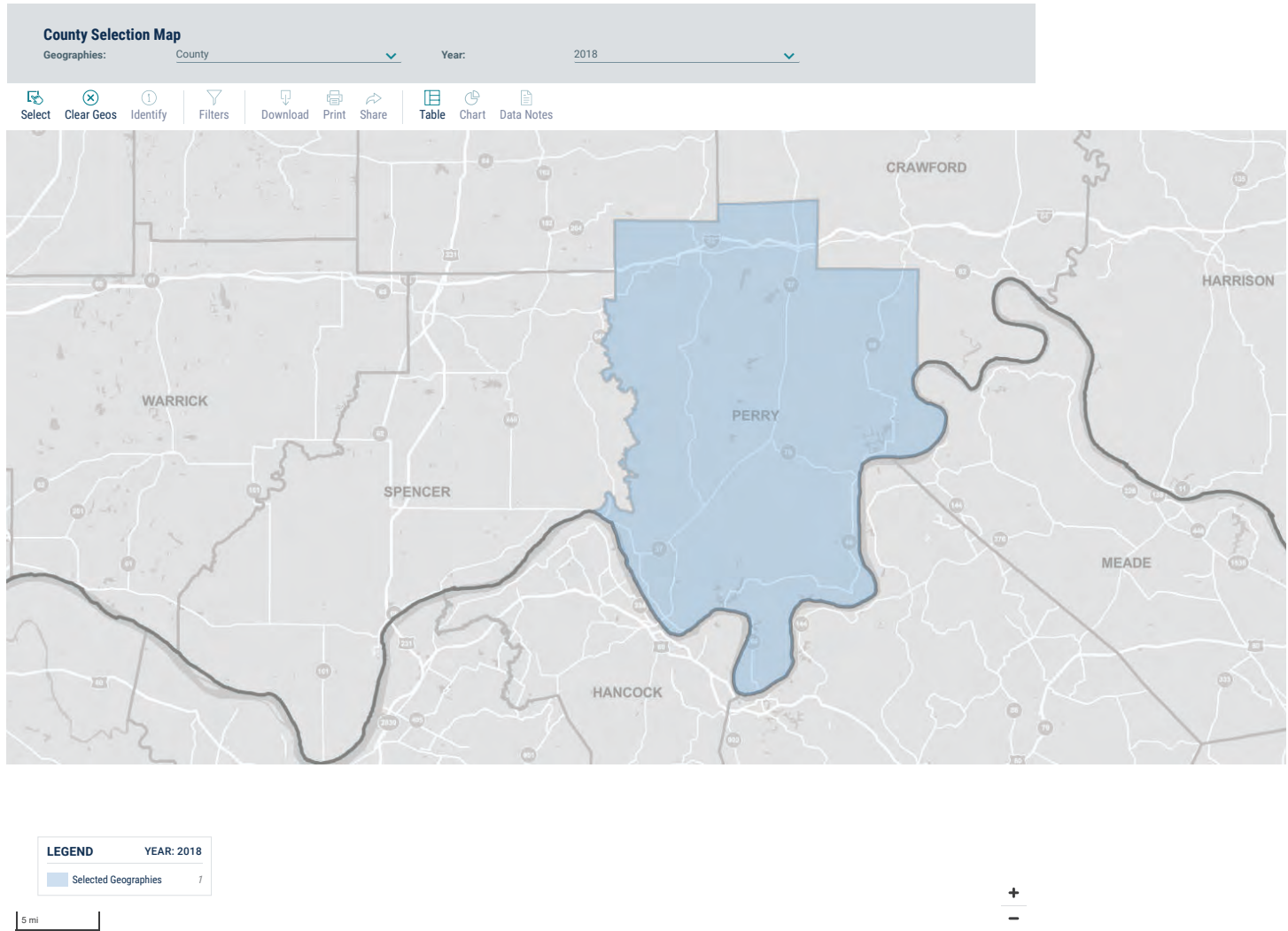
*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

Categorical Exclusion
Appendix I
Other

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated December 2019)

ProjectNumber	SubProjectCode	County	Property
1800584.1	1800584.1	Parke	McCormick's Creek
1800510	1800510	Perry	Sunset Park (Tell City Ohio River Access Site)
1800639	1800639	Perry	Walter Hagedorn Park
1800363	1800363W	Pike	Pike State Forest
1800405	1800405S	Pike	Sugar Ridge Fish and Wildlife Area
1800468	1800468	Pike	Prides Creek Park & Golf Course
1800037	1800037	Porter	Woodland Park
1800050	1800050	Porter	Forest Park Golf Course
1800065	1800065	Porter	Woodland Park
1800080	1800080	Porter	Woodland Park
1800127	1800127	Porter	Indiana Dunes State Park, Dunes Nature Preserve
1800130	1800130	Porter	Bicentennial Park, Northside Park
1800171	1800171E	Porter	Indiana Dunes State Park
1800173	1800173	Porter	Indiana Dunes State Park, Dunes Nature Preserve
1800270	1800270	Porter	Harold Rogers Lakewood Park
1800276	1800276	Porter	Imagination Glen Park
1800284	1800284	Porter	Dogwood Park
1800304	1800304B	Porter	Moraine Nature Preserve
1800312	1800312E	Porter	Indiana Dunes State Park
1800327	1800327D	Porter	Indiana Dunes
1800349	1800349	Porter	Thomas Drazer Memorial Park Pleasant Twp. Pool
1800363	1800363M	Porter	Indiana Dunes State Park
1800378	1800378B	Porter	Indiana Dunes State Park
1800405	1800405Q	Porter	Moraine Nature Preserve
1800407	1800407	Porter	Imagination Glen Park
1800413	1800413L	Porter	Indiana Dunes State Park
1800429	1800429	Porter	Indiana Dunes State Park, Dunes Nature Preserve
1800443	1800443	Porter	Haven Hollow Park
1800452	1800452	Porter	Sunset Hill Farm County Park
1800460	1800460	Porter	Indiana Dunes State Park, Dunes Nature Preserve
1800484	1800484	Porter	Prairie Duneland Trail
1800495	1800495	Porter	Prairie Duneland Trail
1800498	1800498	Porter	Prairie Duneland Trail
1800539	1800539	Porter	Imagination Glen Park
1800591	1800591	Porter	Sunset Hill Farm Park
1800624	1800624	Porter	Imagination Glen Park
1800004	1800004	Posey	Harmonie State Park
1800068	1800068	Posey	Brittlebank Park and Municipal Pool
1800096	1800096	Posey	Harmonie State Park
1800165	1800165	Posey	Harmonie State Park





	Perry County, Indiana		Block Group 1, Census Tract 9522, Perry County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error
∨ Total:	19,141	*****	1,010	+/-236
∨ Not Hispanic or Latino:	18,881	*****	1,010	+/-236
White alone	18,035	+/-12	1,010	+/-236
Black or African American alone	546	+/-112	0	+/-11
American Indian and Alaska Native alone	34	+/-50	0	+/-11
Asian alone	95	+/-21	0	+/-11
Native Hawaiian and Other Pacific Islander	0	+/-18	0	+/-11
Some other race alone	8	+/-12	0	+/-11
∨ Two or more races:	163	+/-101	0	+/-11
Two races including Some other race	0	+/-18	0	+/-11
Two races excluding Some other race, and	163	+/-101	0	+/-11
∨ Hispanic or Latino:	260	*****	0	+/-11
White alone	96	+/-56	0	+/-11
Black or African American alone	31	+/-43	0	+/-11
American Indian and Alaska Native alone	0	+/-18	0	+/-11
Asian alone	0	+/-18	0	+/-11
Native Hawaiian and Other Pacific Islander	0	+/-18	0	+/-11
Some other race alone	36	+/-27	0	+/-11
∨ Two or more races:	97	+/-51	0	+/-11
Two races including Some other race	20	+/-25	0	+/-11
Two races excluding Some other race, and	77	+/-49	0	+/-11

HISPANIC OR LATINO ORIGIN BY RACE

Survey/Program:
 American Community Survey
 Universe:
 Total population
 Year:
 2018
 Estimates:
 5-Year
 Table ID:
 B03002

Source: U.S. Census Bureau, 2018 American Community Survey 1-Year Estimates

	Ferry County, Indiana		Block Group 1, Census Tract 9322, Ferry County, Indiana	
	Estimate	Margin of Error	Estimate	Margin of Error
∨ Total:	17,303	+/-220	1,010	+/-236
∧ Income in the past 12 months below poverty level:	2,434	+/-363	125	+/-109
∧ Income in the past 12 months at or above poverty level:	14,869	+/-462	885	+/-228

POVERTY STATUS OF INDIVIDUALS IN THE PAST 12 MONTHS BY LIVING ARRANGEMENT

Survey/Program:
 American Community Survey
Universe:
 Population for whom poverty status is determined
Year:
 2018
Estimates:
 5-Year
Table ID:
 B17021

Source: U.S. Census Bureau, 2018 American Community Survey 1-Year Estimates

2014-2018 American Community Survey 5-Year Estimates

		<u>COC</u>	<u>AC</u>
		Perry County, Indiana	Block Group 1, Census Tract 9522, Perry County, Indiana
B17021	Low-Income		
001	Population for whom poverty status is determined: Total	17,303	1,010
002	Population for whom poverty status is determined: Income in past 12 months below poverty level	2,434	125
	Percent Low-income (002/001 x 100)	14.07%	12.38%
	125 Percent of COC	17.58%	AC < 125% COC
	Potential Low-income EJ Impact?		No
B03002	Minority		
001	Total Population: Total	19,141	1,010
002	Total Population: Not Hispanic or Latino	18,881	1,010
003	Total Population: Not Hispanic or Latino; White alone	18,035	1,010
004	Total Population: Not Hispanic or Latino; Black or African American alone	546	0
005	Total Population: Not Hispanic or Latino; American Indian and Alaska Native alone	34	0
006	Total Population: Not Hispanic or Latino; Asian alone	95	0
007	Total Population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
008	Total Population: Not Hispanic or Latino; Some other race alone	8	0
009	Total Population: Not Hispanic or Latino; Two or more races	163	0
010	Total Population: Hispanic or Latino	260	0
011	Total Population: Hispanic or Latino; White alone	96	0
012	Total Population: Hispanic or Latino; Black or African American alone	31	0
013	Total Population: Hispanic or Latino; American Indian and Alaska Native alone	0	0
014	Total Population: Hispanic or Latino; Asian alone	0	0
015	Total Population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
016	Total Population: Hispanic or Latino; Some other race alone	36	0
017	Total Population: Hispanic or Latino; Two or more races	97	0
	Number Non-white/minority (001-003)	1,106	0
	Percent Non-white/Minority (001-003/001 x 100)	5.78%	0.00%
	125 Percent of COC	7.22%	AC < 125% COC
	Potential Minority EJ Impact?		No